

**BOEING REALTY CORPORATION  
FORMER C-6 FACILITY  
LOS ANGELES, CALIFORNIA****DRAFT TECHNICAL MEMORANDUM****IMPORT SOIL EVALUATION  
USE OF SOIL SOURCES H AND N AS IMPORT TO PARCEL C**

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**To:** Mr. Brian Mossman  
Boeing Realty Corporation  
3855 Lakewood Blvd.  
Building 1A MC D001-0097  
Long Beach, CA 90846

**From:** Haley & Aldrich, Inc.

**Date:** April 11, 2001

**Re:** Import Soil Evaluation, Use of Soil Sources H and N as Import to Parcel C, Boeing Realty Corporation, Former C-6 Facility – Parcel C, Los Angeles, California

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Haley & Aldrich, Inc. is herein providing this technical memorandum to summarize our recommendations regarding use of two identified potential soil sources, herein referred to as Sources H and N, as import to Parcel C of the Boeing Realty Corporation's (BRC's) Former C-6 Facility in Los Angeles, California (subject parcel). Based on our review of the environmental information provided for the Sources H and N import soils, these soils may be used as fill soil on Parcel C.

**OVERVIEW/PURPOSE**

Two sources of soil, totaling up to approximately 15,800 cubic yards, have been identified as potential import soil for use on Parcel C. Kennedy Jenks Consultants (K/J) collected two soil samples from Source H and one sample from Source N and tested these samples in accordance with the protocol presented in the December 11, 2000 Import Soil Screening Program Plan prepared for Parcel C. This plan has been used as guidance to evaluate import soil from "offsite" sources. The criteria presented in the plan were then compared to the analytical results of the soil samples. The purpose of this technical memorandum is to present a summary of the evaluation of the Sources H and N soils and to provide recommendations for use as import for Parcel C.

**LOCATION OF PROPOSED SOURCES H AND N IMPORT SOIL**

The Source H potential import soil comprises approximately 14,000 cubic yards. Source H soil originated from a residential property located at 7th Avenue and Catalina in Los Angeles, California. This property has reportedly been developed for residential purposes since the 1930s. This soil was excavated as part of a redevelopment project for continued residential use.

The Source N potential import soil comprises approximately 1,800 cubic yards. Source N soil originated from St. John's Hospital in Santa Monica, California. This soil was reportedly excavated as part of a hospital renovation project.

## COMPARISON OF ANALYTICAL RESULTS TO IMPORT SOIL GUIDANCE CRITERIA

The laboratory report for the soil samples collected from the subject potential sources is presented as Attachment 1. Each sample was tested for metals, and various organic chemicals, including total petroleum hydrocarbons, polynuclear aromatic hydrocarbons, and volatile organic hydrocarbons. A review of the laboratory results indicates that the organic chemical results are within both the site-specific import soil evaluation criteria presented in the December 11, 2000 Import Soil Screening Program Plan. A summary of the detected organic compounds and their associated site-specific soil import criteria are presented in Table 1. The remaining organic compounds on the analyte list were not detected, and their detection limits are consistent with the soil import criteria.

**Table 1. Summary of Detected Organic Results and Associated Site-Specific Import Soil Criteria**

Sample Identification	Chemical	Reported Concentration (mg/kg)	Site-Specific Import Soil Criterion (mg/kg)
SOURCE_H_031301_1	Total petroleum hydrocarbons (C20-C40+)	85	< 10 – 5,000
	Fluoranthene	0.026	< 0.020 – 6,970
	Indeno(1,2,3-cd)pyrene	0.034	< 0.020 – 14.7
SOURCE_H_031301_2	Total petroleum hydrocarbons (C28-C40+)	46	< 10 – 5,000
	Benzo(a)pyrene	0.0021	< 0.004 – 1.14
	Fluoranthene	0.0091	< 0.020 – 6,970
SOURCE_N_031901	Total petroleum hydrocarbons (C24-C40+)	0.130	< 10 – 5,000

Several of the metals results are greater than the site-specific criteria, but are within the reported southern California background literature value criteria. Others metals results are greater than the reported southern California background literature value criteria, and are identified in bold in Table 2. A summary of these metals results is presented in Table 2. The remaining metals on the analyte list are consistent with the import soil criteria.

**Table 2. Summary of Metals Results Greater Than Site-Specific Import Soil Criteria and Associated Site-Specific and South ern California Import Soil Criteria**

Sample Identification	Chemical	Reported Concentration (mg/kg)	Site-Specific Import Soil Criterion (mg/kg)	Maximum Regional (Southern California) Background Criterion (mg/kg)
SOURCE_H_031301_1	Barium	199	135	560
	Nickel	19.7	18	28.2
	Beryllium	0.65	0.5	1.2
	Vanadium	48.4	38	84.8
	Cobalt	10.2	9.4	23.2
	<b>Copper</b>	<b>63.8</b>	<b>20</b>	<b>54</b>
	<b>Arsenic</b>	<b>16.3</b>	<b>8</b>	<b>15.2</b>
SOURCE_H_031301_2	Lead	11.2	8	189.4
	<b>Molybdenum</b>	<b>2.8</b>	<b>1</b>	<b>1.4</b>
	Barium	144	135	560
	<b>Nickel</b>	<b>32.7</b>	<b>18</b>	<b>28.2</b>
	Beryllium	0.77	0.5	1.2
	Vanadium	84.2	38	84.8
	Zinc	117	64	247
	<b>Chromium</b>	<b>46.7</b>	<b>39</b>	<b>32.6</b>
	Cadmium	0.94	0.5	1.45
	Cobalt	11.8	9.4	23.2
SOURCE_N_031901	<b>Copper</b>	<b>72.9</b>	<b>20</b>	<b>54</b>
	Beryllium	0.53	<0.5	1.2
	Copper	20.6	20	54
	Molybdenum	1.0B	<1	1.4
	Nickel	18.1	18	28.2

#### RECOMMENDATIONS FOR USE AS IMPORT SOIL

It is recommended that the subject approximately 15,800 cubic yards of soils comprising Sources H and N be used as fill soil on Parcel C. The reported soil concentrations for organic compounds are consistent with the site-specific criteria, and those for inorganic chemicals are consistent with the site-specific and/or southern California background criteria, with the exception of copper, arsenic, molybdenum, nickel, and chromium results for Source H soil. This soil originated from a property currently and historically developed for residential use. Thus, the Source H soil results for metals are not considered to be a result of chemical contamination. The metals results for both the Sources H and N import soils are considered to be representative of background metals concentrations for the general geographic region from which these soils originated.

Sincerely yours,  
HALEY & ALDRICH, INC.



Anita Broughton, CIH  
Risk Assessment Task Manager



Scott Zachary  
Project Manager



#### Attachments:

Appendix A     Laboratory Reports

Appendix A

SEVERN  
TRENT  
SERVICES

March 31, 2001

STL LOT NUMBER: E1C260157  
PO/CONTRACT: 05160-SEV002

Jay Knight  
Kennedy/Jenks Consultants  
2151 Michelson Drive  
Suite 100  
Irvine, CA 92612

STL Los Angeles  
1721 South Grand Avenue  
Santa Ana, CA 92705-4808

Tel: 714 258 8610  
Fax: 714 258 0921  
[www.stl-inc.com](http://www.stl-inc.com)

Dear Mr. Knight

This report contains the analytical results for the 11 samples received under chain of custody by STL Los Angeles on March 26, 2001. These samples are associated with your BRC former C6 torrance Harbor Gateway project.

All applicable quality control procedures meet method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading beyond 2 to 6 degrees Celsius is considered not within acceptable criteria unless otherwise noted such as limited transit time from field and test requested. Any matrix related anomaly is footnoted within the report. Note that the 8310 analysis was performed by Del Mar Analytical. Please see the attached report for any related anomalies.

STL Los Angeles certifies that the test results provided in this report meet all the requirements of NELAC certification number 01118CA. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at 714-258-8610.

Sincerely,



Diane Suzuki  
Project Manager

cc: Project File

**000136**

This report contains 000127 pages.



# EXECUTIVE SUMMARY - Detection Highlights

E1C260157

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
<b>SOURCE_N_031901 03/19/01 10:30 001</b>				
C24-C27	7.6 J	10	mg/kg	SW846 8015B
C28-C31	15	10	mg/kg	SW846 8015B
C32-C35	19	10	mg/kg	SW846 8015B
C36-C39	28	10	mg/kg	SW846 8015B
C40+	42	10	mg/kg	SW846 8015B
Total Carbon Chain Range	130	10	mg/kg	SW846 8015B
Mercury	0.024 B	0.10	mg/kg	SW846 7471A
Silver	0.15 B	1.0	mg/kg	SW846 6010B
Aluminum	13500	20.0	mg/kg	SW846 6010B
Arsenic	6.0	1.0	mg/kg	SW846 6010B
Barium	71.2	2.0	mg/kg	SW846 6010B
Beryllium	0.53	0.50	mg/kg	SW846 6010B
Cobalt	5.5	5.0	mg/kg	SW846 6010B
Chromium	26.0	1.0	mg/kg	SW846 6010B
Copper	20.6	2.5	mg/kg	SW846 6010B
Molybdenum	1.0 B	4.0	mg/kg	SW846 6010B
Nickel	18.1	4.0	mg/kg	SW846 6010B
Lead	5.3	0.50	mg/kg	SW846 6010B
Thallium	0.84 B	1.0	mg/kg	SW846 6010B
Vanadium	34.6	5.0	mg/kg	SW846 6010B
Zinc	47.2	2.0	mg/kg	SW846 6010B
<b>SOURCE_L_031901_1 03/19/01 15:30 002</b>				
C10-C11	7.6 J	10	mg/kg	SW846 8015B
C12-C13	8.9 J	10	mg/kg	SW846 8015B
C14-C15	13	10	mg/kg	SW846 8015B
C16-C17	22	10	mg/kg	SW846 8015B
C18-C19	31	10	mg/kg	SW846 8015B
C20-C23	48	10	mg/kg	SW846 8015B
C24-C27	74	10	mg/kg	SW846 8015B
C28-C31	130	10	mg/kg	SW846 8015B
C32-C35	160	10	mg/kg	SW846 8015B
C36-C39	170	10	mg/kg	SW846 8015B
C40+	210	10	mg/kg	SW846 8015B
Total Carbon Chain Range	880	10	mg/kg	SW846 8015B
Mercury	0.041 B	0.10	mg/kg	SW846 7471A
Silver	0.18 B	1.0	mg/kg	SW846 6010B
Aluminum	14900	20.0	mg/kg	SW846 6010B
Arsenic	5.6	1.0	mg/kg	SW846 6010B
Barium	153	2.0	mg/kg	SW846 6010B
Beryllium	0.48 B	0.50	mg/kg	SW846 6010B
Cadmium	0.10 B	0.50	mg/kg	SW846 6010B

(Continued on next page)

**000004**

# SAMPLE SUMMARY

E1C260157

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
DX01E	001	SOURCE_N_031901	03/19/01	10:30
DX01F	002	SOURCE_L_031901_1	03/19/01	15:30
DX01G	003	BUILD_20_M_23_032101_1	03/21/01	08:00
DX01H	004	BUILD_20_L_23_032101_2	03/21/01	09:30
DX01K	005	BUILD_20_M_23_032101_3	03/21/01	10:00
DX01L	006	BUILD_20_M_23_032101_4	03/21/01	10:15
DX01N	007	BUILD_20_M_23_032101_5	03/21/01	10:25
DX01P	008	BUILD_20_L_23_032101_6	03/21/01	11:00
DX01Q	009	BUILD_20_M_23_032201_7	03/22/01	10:00
DX01R	010	SOURCE_O_032601_2	03/26/01	11:45
DX01T	011	SOURCEO_032601_1	03/26/01	11:50

## NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

000012

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_N\_031901

## GC Semivolatiles

Lot-Sample #....: E1C260157-001 Work Order #....: DX01E1AE Matrix.....: SOLID  
 Date Sampled....: 03/19/01 10:30 Date Received...: 03/26/01 14:20 MS Run #.....: 1085281  
 Prep Date.....: 03/26/01 Analysis Date...: 03/27/01  
 Prep Batch #....: 1085525 Analysis Time...: 15:58  
 Dilution Factor: 1  
 Analyst ID.....: 356074 Instrument ID...: G03  
 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	ND	10	mg/kg	5.0
C18-C19	ND	10	mg/kg	5.0
C20-C23	ND	10	mg/kg	5.0
C24-C27	7.6 J	10	mg/kg	5.0
C28-C31	15	10	mg/kg	5.0
C32-C35	19	10	mg/kg	5.0
C36-C39	28	10	mg/kg	5.0
C40+	42	10	mg/kg	5.0
Total Carbon Chain Range	130	10	mg/kg	5.0

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Benzo (a) pyrene	67	(60 - 130)

NOTE (S) :

J Estimated result. Result is less than RL.

000013

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_N\_031901

GC Volatiles

Lot-Sample #....: E1C260157-001 Work Order #....: DX01E1AF Matrix.....: SOLID  
Date Sampled....: 03/19/01 10:30 Date Received...: 03/26/01 14:20 MS Run #.....: 1087176  
Prep Date.....: 03/27/01 Analysis Date...: 03/27/01  
Prep Batch #....: 1087308 Analysis Time...: 11:44  
Dilution Factor: 1  
Analyst ID.....: 001464 Instrument ID...: G15  
Method.....: SW846 8015B

PARAMETER	REPORTING		
	RESULT	LIMIT	UNITS
C6-C8	ND	1.0	mg/kg
SURROGATE	PERCENT	RECOVERY	
	RECOVERY	LIMITS	
a,a,a-Trifluorotoluene (TFT)	84	(60 - 130)	

000014

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_N\_031901

## GC/MS Volatiles

Lot-Sample #....: E1C260157-001 Work Order #....: DX01E1AD Matrix.....: SOLID  
 Date Sampled...: 03/19/01 10:30 Date Received...: 03/26/01 14:20 MS Run #....: 1087164  
 Prep Date.....: 03/27/01 Analysis Date...: 03/27/01  
 Prep Batch #....: 1087297 Analysis Time...: 22:00  
 Dilution Factor: 1  
 Analyst ID.....: 015590 Instrument ID...: MSD  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	50	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0

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000015

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_N\_031901

## GC/MS Volatiles

Lot-Sample #....: E1C260157-001 Work Order #....: DX01E1AD Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Bromofluorobenzene	99		(70 - 130)	
1,2-Dichloroethane-d4	77		(60 - 140)	
Toluene-d8	91		(70 - 130)	

000016

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_N\_031901

## TOTAL Metals

Lot-Sample #...: E1C260157-001  
 Date Sampled...: 03/19/01 10:30 Date Received...: 03/26/01 14:20 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...:	1085269					
Silver	0.15 B	1.0	mg/kg	SW846 6010B	03/26-03/27/01	DX01E1AV
		Dilution Factor: 1		Analysis Time...: 21:40	Analyst ID.....:	0031190
		Instrument ID...: M01		MS Run #.....: 1085130	MDL.....:	0.10
Aluminum	13500	20.0	mg/kg	SW846 6010B	03/26-03/27/01	DX01E1AG
		Dilution Factor: 1		Analysis Time...: 21:40	Analyst ID.....:	0031190
		Instrument ID...: M01		MS Run #.....: 1085130	MDL.....:	8.0
Arsenic	6.0	1.0	mg/kg	SW846 6010B	03/26-03/27/01	DX01E1AJ
		Dilution Factor: 1		Analysis Time...: 21:40	Analyst ID.....:	0031190
		Instrument ID...: M01		MS Run #.....: 1085130	MDL.....:	0.40
Barium	71.2	2.0	mg/kg	SW846 6010B	03/26-03/27/01	DX01E1AK
		Dilution Factor: 1		Analysis Time...: 21:40	Analyst ID.....:	0031190
		Instrument ID...: M01		MS Run #.....: 1085130	MDL.....:	0.10
Beryllium	0.53	0.50	mg/kg	SW846 6010B	03/26-03/27/01	DX01E1AL
		Dilution Factor: 1		Analysis Time...: 21:40	Analyst ID.....:	0031190
		Instrument ID...: M01		MS Run #.....: 1085130	MDL.....:	0.050
Cadmium	ND	0.50	mg/kg	SW846 6010B	03/26-03/27/01	DX01E1AM
		Dilution Factor: 1		Analysis Time...: 21:40	Analyst ID.....:	0031190
		Instrument ID...: M01		MS Run #.....: 1085130	MDL.....:	0.050
Cobalt	5.5	5.0	mg/kg	SW846 6010B	03/26-03/27/01	DX01E1AN
		Dilution Factor: 1		Analysis Time...: 21:40	Analyst ID.....:	0031190
		Instrument ID...: M01		MS Run #.....: 1085130	MDL.....:	0.10
Chromium	26.0	1.0	mg/kg	SW846 6010B	03/26-03/27/01	DX01E1AL
		Dilution Factor: 1		Analysis Time...: 21:40	Analyst ID.....:	0031190
		Instrument ID...: M01		MS Run #.....: 1085130	MDL.....:	0.10
Copper	20.6	2.5	mg/kg	SW846 6010B	03/26-03/27/01	DX01E1AP
		Dilution Factor: 1		Analysis Time...: 21:40	Analyst ID.....:	0031190
		Instrument ID...: M01		MS Run #.....: 1085130	MDL.....:	0.40

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## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_N\_031901

## TOTAL Metals

Lot-Sample #....: E1C260157-001

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Molybdenum	1.0 B	4.0	mg/kg		SW846 6010B	03/26-03/27/01	DX01E1AR
		Dilution Factor: 1			Analysis Time...: 21:40	Analyst ID.....: 0031190	
		Instrument ID...: M01			MS Run #.....: 1085130	MDL.....: 0.30	
Nickel	18.1	4.0	mg/kg		SW846 6010B	03/26-03/27/01	DX01E1AT
		Dilution Factor: 1			Analysis Time...: 21:40	Analyst ID.....: 0031190	
		Instrument ID...: M01			MS Run #.....: 1085130	MDL.....: 0.30	
Lead	5.3	0.50	mg/kg		SW846 6010B	03/26-03/27/01	DX01E1AQ
		Dilution Factor: 1			Analysis Time...: 21:40	Analyst ID.....: 0031190	
		Instrument ID...: M01			MS Run #.....: 1085130	MDL.....: 0.30	
Antimony	ND	6.0	mg/kg		SW846 6010B	03/26-03/27/01	DX01E1AH
		Dilution Factor: 1			Analysis Time...: 21:40	Analyst ID.....: 0031190	
		Instrument ID...: M01			MS Run #.....: 1085130	MDL.....: 0.20	
Selenium	ND	0.50	mg/kg		SW846 6010B	03/26-03/27/01	DX01E1AU
		Dilution Factor: 1			Analysis Time...: 21:40	Analyst ID.....: 0031190	
		Instrument ID...: M01			MS Run #.....: 1085130	MDL.....: 0.40	
Thallium	0.84 B	1.0	mg/kg		SW846 6010B	03/26-03/27/01	DX01E1AW
		Dilution Factor: 1			Analysis Time...: 21:40	Analyst ID.....: 0031190	
		Instrument ID...: M01			MS Run #.....: 1085130	MDL.....: 0.50	
Vanadium	34.6	5.0	mg/kg		SW846 6010B	03/26-03/27/01	DX01E1AX
		Dilution Factor: 1			Analysis Time...: 21:40	Analyst ID.....: 0031190	
		Instrument ID...: M01			MS Run #.....: 1085130	MDL.....: 0.10	
Zinc	47.2	2.0	mg/kg		SW846 6010B	03/26-03/27/01	DX01E1AO
		Dilution Factor: 1			Analysis Time...: 21:40	Analyst ID.....: 0031190	
		Instrument ID...: M01			MS Run #.....: 1085130	MDL.....: 1.0	
Prep Batch #....:	1085270						
Mercury	0.024 B	0.10	mg/kg		SW846 7471A	03/27-03/28/01	DX01E1AA
		Dilution Factor: 1			Analysis Time...: 11:28	Analyst ID.....: 0210880	
		Instrument ID...: M04			MS Run #.....: 1085131	MDL.....: 0.020	

NOTE (S) :

B Estimated result. Result is less than RL.

000065

# QC DATA ASSOCIATION SUMMARY

E1C260157

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	SW846 8015B		1085525	1085281
	SOLID	SW846 8015B		1087308	1087176
	SOLID	SW846 7471A		1085270	1085131
	SOLID	SW846 8260B		1087297	1087164
	SOLID	SW846 6010B		1085269	1085130
002	SOLID	SW846 8015B		1085525	1085281
	SOLID	SW846 8015B		1087308	1087176
	SOLID	SW846 7471A		1085270	1085131
	SOLID	SW846 8260B		1087297	1087164
	SOLID	SW846 6010B		1085269	1085130
003	SOLID	SW846 8015B		1085525	1085281
	SOLID	SW846 8015B		1087308	1087176
	SOLID	SW846 7471A		1085270	1085131
	SOLID	SW846 8260B		1089536	1089226
	SOLID	SW846 6010B		1085269	1085130
004	SOLID	SW846 8015B		1085525	1085281
	SOLID	SW846 8015B		1087308	1087176
	SOLID	SW846 7471A		1085270	1085131
	SOLID	SW846 8260B		1089535	1089271
	SOLID	SW846 6010B		1085269	1085130
005	SOLID	SW846 8015B		1085525	1085281
	SOLID	SW846 8015B		1087308	1087176
	SOLID	SW846 7471A		1085270	1085131
	SOLID	SW846 8260B		1089535	1089271
	SOLID	SW846 6010B		1085269	1085130
006	SOLID	SW846 8015B		1085525	1085281
	SOLID	SW846 8015B		1087308	1087176
	SOLID	SW846 7471A		1085270	1085131
	SOLID	SW846 8260B		1089535	1089271
	SOLID	SW846 6010B		1085269	1085130
007	SOLID	SW846 8015B		1085525	1085281
	SOLID	SW846 8015B		1087308	1087176
	SOLID	SW846 7471A		1085270	1085131
	SOLID	SW846 8260B		1089535	1089271
	SOLID	SW846 6010B		1085269	1085130

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BOE-C6-0211521

# QC DATA ASSOCIATION SUMMARY

E1C260157

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
008	SOLID	SW846 8015B		1085525	1085281
	SOLID	SW846 8015B		1087308	1087176
	SOLID	SW846 7471A		1085270	1085131
	SOLID	SW846 8260B		1089535	1089271
	SOLID	SW846 6010B		1085269	1085130
009	SOLID	SW846 8015B		1085525	1085281
	SOLID	SW846 8015B		1087308	1087176
	SOLID	SW846 7471A		1085270	1085131
	SOLID	SW846 8260B		1089535	1089271
	SOLID	SW846 6010B		1085269	1085130
010	SOLID	SW846 8015B		1085525	1085281
	SOLID	SW846 8015B		1087308	1087176
	SOLID	SW846 7471A		1085270	1085131
	SOLID	SW846 8260B		1087297	1087164
	SOLID	SW846 6010B		1085269	1085130
011	SOLID	SW846 8015B		1085525	1085281
	SOLID	SW846 8015B		1087308	1087176
	SOLID	SW846 7471A		1085270	1085131
	SOLID	SW846 8260B		1087297	1087164
	SOLID	SW846 6010B		1085269	1085130

000087

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #....: E1C260157  
MB Lot-Sample #: E1C260000-525  
  
Analysis Date...: 03/27/01  
Dilution Factor: 1

Work Order #....: DX08N1AA  
Prep Date.....: 03/26/01  
Prep Batch #....: 1085525  
  
Analyst ID.....: 356074

Matrix.....: SOLID  
Analysis Time...: 14:40  
Instrument ID..: G03

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
C8-C9	ND	10	mg/kg	SW846 8015B
C10-C11	ND	10	mg/kg	SW846 8015B
C12-C13	ND	10	mg/kg	SW846 8015B
C14-C15	ND	10	mg/kg	SW846 8015B
C16-C17	ND	10	mg/kg	SW846 8015B
C18-C19	ND	10	mg/kg	SW846 8015B
C20-C23	ND	10	mg/kg	SW846 8015B
C24-C27	ND	10	mg/kg	SW846 8015B
C28-C31	ND	10	mg/kg	SW846 8015B
C32-C35	ND	10	mg/kg	SW846 8015B
C36-C39	ND	10	mg/kg	SW846 8015B
C40+	ND	10	mg/kg	SW846 8015B
Total Carbon Chain Range	ND	10	mg/kg	SW846 8015B
SURROGATE	PERCENT	RECOVERY		
		RECOVERY	LIMITS	
Benzo(a)pyrene	64	(60 - 130)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000088

## METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #....: E1C260157  
 MB Lot-Sample #: E1C280000-297  
 Analysis Date...: 03/27/01  
 Dilution Factor: 1

Work Order #....: DX3TQ1AA  
 Prep Date.....: 03/27/01  
 Prep Batch #: 1087297  
 Analyst ID.....: 015590

Matrix.....: SOLID  
 Analysis Time..: 21:28  
 Instrument ID..: MSD

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	50	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B

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000089

## METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #....: E1C260157

Work Order #....: DX3TQ1AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
		(70 - 130)		
Bromofluorobenzene	100			
1,2-Dichloroethane-d4	77	(60 - 140)		
Toluene-d8	94	(70 - 130)		

## NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000090

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: E1C260157  
MB Lot-Sample #: E1C280000-308  
  
Analysis Date...: 03/27/01  
Dilution Factor: 1

Work Order #....: DX3WK1AA  
Prep Date.....: 03/27/01  
Prep Batch #: 1087308  
  
Analyst ID.....: 001464

Matrix.....: SOLID  
Analysis Time..: 11:11  
Instrument ID..: G15

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
C6-C8	0.11 J	1.0	mg/kg	SW846 8015B
SURROGATE	PERCENT	RECOVERY	LIMITS	
a,a,a-Trifluorotoluene (TFT)	RECOVERY	91	(60 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

Surrogate for C6->C12 integration = 0.1731 86.6% recovery.

000091

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** E1C260157  
**MB Lot-Sample #:** E1C300000-535  
  
**Analysis Date...:** 03/30/01  
**Dilution Factor:** 1

**Work Order #....:** DX9KJ1AA  
**Prep Date.....:** 03/30/01  
**Prep Batch #....:** 1089535  
**Analyst ID.....:** 015590

**Matrix.....: SOLID**  
**Analysis Time...: 10:24**  
**Instrument ID : MSD**

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	50	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B

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000092

## METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #....: E1C260157

Work Order #....: DX9KJ1AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>	
Bromofluorobenzene		87	(70 - 130)	
1,2-Dichloroethane-d4		81	(60 - 140)	
Toluene-d8		84	(70 - 130)	

## NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000093

## METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #....: E1C260157  
 MB Lot-Sample #: E1C300000-536  
 Analysis Date...: 03/30/01  
 Dilution Factor: 1

Work Order #....: DX9KM1AA

Matrix.....: SOLID

Prep Date.....: 03/30/01  
 Prep Batch #: 1089536

Analysis Time..: 12:29  
 Instrument ID.: MSG

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	50	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B

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## METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #....: E1C260157

Work Order #....: DX9KM1AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>REPORTING</u>			
	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
	<u>RECOVERY</u>	<u>LIMITS</u>		
Bromofluorobenzene	103	(70 - 130)		
1,2-Dichloroethane-d4	97	(60 - 140)		
Toluene-d8	99	(70 - 130)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000095

**METHOD BLANK REPORT**

**TOTAL Metals**

**Client Lot #....: E1C260157**

**Matrix.....: SOLID**

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Nickel	ND	4.0	mg/kg	SW846 6010B		03/26-03/27/01	DX0G51AQ
		Dilution Factor: 1					
		Analysis Time...: 19:30		Analyst ID.....: 003119		Instrument ID...: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B		03/26-03/27/01	DX0G51AK
		Dilution Factor: 1					
		Analysis Time...: 19:30		Analyst ID.....: 003119		Instrument ID...: M01	
Silver	ND	1.0	mg/kg	SW846 6010B		03/26-03/27/01	DX0G51AL
		Dilution Factor: 1					
		Analysis Time...: 19:30		Analyst ID.....: 003119		Instrument ID...: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B		03/26-03/27/01	DX0G51AR
		Dilution Factor: 1					
		Analysis Time...: 19:30		Analyst ID.....: 003119		Instrument ID...: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B		03/26-03/27/01	DX0G51AT
		Dilution Factor: 1					
		Analysis Time...: 19:30		Analyst ID.....: 003119		Instrument ID...: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B		03/26-03/27/01	DX0G51AU
		Dilution Factor: 1					
		Analysis Time...: 19:30		Analyst ID.....: 003119		Instrument ID...: M01	
<b>MB Lot-Sample #: E1C260000-270 Prep Batch #...: 1085270</b>							
Mercury	ND	0.10	mg/kg	SW846 7471A		03/27-03/28/01	DX0HC1AA
		Dilution Factor: 1					
		Analysis Time...: 11:02		Analyst ID.....: 021088		Instrument ID...: M04	

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000097**

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC Semivolatiles

Client Lot #....: E1C260157      Work Order #....: DX08N1AC      Matrix.....: SOLID  
LCS Lot-Sample#: E1C260000-525  
Prep Date.....: 03/26/01      Analysis Date...: 03/27/01  
Prep Batch #....: 1085525      Analysis Time...: 15:19  
Dilution Factor: 1      Instrument ID...: G03  
Analyst ID.....: 356074

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>		
	<b>250</b>	<b>201</b>	<b>mg/kg</b>	<b>80</b>	<b>SW846 8015B</b>

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Benzo (a) pyrene	74	(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000098

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

**Client Lot #....:** E1C260157      **Work Order #....:** DX3TQ1AC      **Matrix.....:** SOLID  
**LCS Lot-Sample#:** E1C280000-297  
**Prep Date.....:** 03/27/01      **Analysis Date...:** 03/27/01  
**Prep Batch #....:** 1087297      **Analysis Time...:** 20:56  
**Dilution Factor:** 1      **Instrument ID...:** MSD  
**Analyst ID.....:** 015590

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>PERCENT</u>	
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>RECOVERY</u>
1,1-Dichloroethene	<b>50.0</b>	<b>46.0</b>	<b>ug/kg</b>	<b>92</b>
Benzene	<b>50.0</b>	<b>42.3</b>	<b>ug/kg</b>	<b>85</b>
Trichloroethene	<b>50.0</b>	<b>47.6</b>	<b>ug/kg</b>	<b>95</b>
Toluene	<b>50.0</b>	<b>49.0</b>	<b>ug/kg</b>	<b>98</b>
Chlorobenzene	<b>50.0</b>	<b>49.3</b>	<b>ug/kg</b>	<b>99</b>

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Bromofluorobenzene	86	(70 - 130)
1,2-Dichloroethane-d4	70	(60 - 140)
Toluene-d8	86	(70 - 130)

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000099

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: E1C260157      Work Order #....: DX3WK1AC      Matrix.....: SOLID  
LCS Lot-Sample#: E1C280000-308  
Prep Date.....: 03/27/01      Analysis Date...: 03/28/01  
Prep Batch #:....: 1087308      Analysis Time...: 11:12  
Dilution Factor: 1      Instrument ID...: G15  
Analyst ID.....: 001464

PARAMETER	SPIKE <u>AMOUNT</u>	MEASURED <u>AMOUNT</u>	PERCENT <u>UNITS</u> RECOVERY	METHOD
TPH (as Gasoline)	5.00	4.02	mg/kg 80	SW846 8015B
SURROGATE		PERCENT RECOVERY	RECOVERY LIMITS	
a,a,a-Trifluorotoluene (TFT)		102	(60 - 130)	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000100

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

**Client Lot #....:** E1C260157      **Work Order #....:** DX9KJ1AC      **Matrix.....:** SOLID  
**LCS Lot-Sample#:** E1C300000-535  
**Prep Date.....:** 03/30/01      **Analysis Date...:** 03/30/01  
**Prep Batch #....:** 1089535      **Analysis Time...:** 08:46  
**Dilution Factor:** 1      **Instrument ID...:** MSD  
**Analyst ID.....:** 015590

<u>PARAMETER</u>	<u>SPIKE</u> <b>AMOUNT</b>	<u>MEASURED</u> <b>AMOUNT</b>	<u>UNITS</u>	<u>PERCENT</u> <b>RECOVERY</b>	<u>METHOD</u>
1,1-Dichloroethene	50.0	54.6	ug/kg	109	SW846 8260B
Benzene	50.0	48.9	ug/kg	98	SW846 8260B
Trichloroethene	50.0	51.1	ug/kg	102	SW846 8260B
Toluene	50.0	48.6	ug/kg	97	SW846 8260B
Chlorobenzene	50.0	49.3	ug/kg	99	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <b>RECOVERY</b>	<u>RECOVERY</u> <b>LIMITS</b>
Bromofluorobenzene	82	(70 - 130)
1,2-Dichloroethane-d4	79	(60 - 140)
Toluene-d8	85	(70 - 130)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000101

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

Client Lot #....: E1C260157      Work Order #....: DX9KM1AC      Matrix.....: SOLID  
 LCS Lot-Sample#: E1C300000-536  
 Prep Date.....: 03/30/01      Analysis Date...: 03/30/01  
 Prep Batch #:....: 1089536      Analysis Time...: 11:23  
 Dilution Factor: 1      Instrument ID...: MSG  
 Analyst ID.....: 015590

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>UNITS</u>	<u>PERCENT</u>	<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>		<u>RECOVERY</u>	
1,1-Dichloroethene	50.0	46.2	ug/kg	92	SW846 8260B
Benzene	50.0	43.9	ug/kg	88	SW846 8260B
Trichloroethene	50.0	41.2	ug/kg	82	SW846 8260B
Toluene	50.0	41.8	ug/kg	84	SW846 8260B
Chlorobenzene	50.0	41.7	ug/kg	83	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Bromofluorobenzene	101	(70 - 130)
1,2-Dichloroethane-d4	97	(60 - 140)
Toluene-d8	102	(70 - 130)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000102

**LABORATORY CONTROL SAMPLE DATA REPORT**

**TOTAL Metals**

Client Lot #....: E1C260157

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>LCS Lot-Sample#: E1C260000-269 Prep Batch #...: 1085269</b>							
Aluminum	200	172	mg/kg	86	SW846 6010B	03/26-03/27/01	DX0G51AV
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Arsenic	200	190	mg/kg	95	SW846 6010B	03/26-03/27/01	DX0G51AW
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Antimony	50.0	46.6	mg/kg	93	SW846 6010B	03/26-03/27/01	DX0G51AX
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Barium	200	202	mg/kg	101	SW846 6010B	03/26-03/27/01	DX0G51A0
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Cadmium	5.00	5.36	mg/kg	107	SW846 6010B	03/26-03/27/01	DX0G51A1
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Chromium	20.0	22.3	mg/kg	112	SW846 6010B	03/26-03/27/01	DX0G51A2
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Beryllium	5.00	5.51	mg/kg	110	SW846 6010B	03/26-03/27/01	DX0G51A3
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Lead	50.0	48.1	mg/kg	96	SW846 6010B	03/26-03/27/01	DX0G51A4
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Selenium	200	181	mg/kg	90	SW846 6010B	03/26-03/27/01	DX0G51A5
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Silver	5.00	4.92	mg/kg	98	SW846 6010B	03/26-03/27/01	DX0G51A6
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	

(Continued on next page)

**000103**

**LABORATORY CONTROL SAMPLE DATA REPORT**

**TOTAL Metals**

Client Lot #....: E1C260157

**Matrix.....: SOLID**

PARAMETER	SPIKE	MEASURED	UNITS	PERCNT	METHOD	PREPARATION-	WORK
	AMOUNT	AMOUNT		RECVRY		ANALYSIS DATE	ORDER #
Cobalt	50.0	53.8	mg/kg	108	SW846 6010B	03/26-03/27/01	DX0G51A7
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Copper	25.0	24.7	mg/kg	99	SW846 6010B	03/26-03/27/01	DX0G51A8
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Molybdenum	100	100	mg/kg	100	SW846 6010B	03/26-03/27/01	DX0G51A9
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Nickel	50.0	53.2	mg/kg	106	SW846 6010B	03/26-03/27/01	DX0G51CA
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Thallium	200	186	mg/kg	93	SW846 6010B	03/26-03/27/01	DX0G51CC
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Vanadium	50.0	52.6	mg/kg	105	SW846 6010B	03/26-03/27/01	DX0G51CD
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
Zinc	50.0	52.2	mg/kg	104	SW846 6010B	03/26-03/27/01	DX0G51CE
			Dilution Factor: 1				
			Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01	
LCS Lot-Sample#:	E1C260000-270	Prep Batch #....:	1085270				
Mercury	0.833	0.855	mg/kg	103	SW846 7471A	03/27-03/28/01	DX0HC1AC
			Dilution Factor: 1				
			Analysis Time...: 11:03		Analyst ID.....: 021088	Instrument ID...: M04	

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000104**

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: E1C260157      Work Order #....: DX08N1AC      Matrix.....: SOLID  
LCS Lot-Sample#: E1C260000-525  
Prep Date.....: 03/26/01      Analysis Date...: 03/27/01  
Prep Batch #....: 1085525      Analysis Time...: 15:19  
Dilution Factor: 1      Instrument ID...: G03  
Analyst ID.....: 356074

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
<b>TPH (as Diesel)</b>	<b>80</b>	<b>(60 - 130)</b>	<b>SW846 8015B</b>
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Benzo (a) pyrene	74	(60 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000105

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: E1C260157      Work Order #....: DX3TQ1AC      Matrix.....: SOLID  
LCS Lot-Sample#: E1C280000-297  
Prep Date.....: 03/27/01      Analysis Date...: 03/27/01  
Prep Batch #....: 1087297      Analysis Time...: 20:56  
Dilution Factor: 1      Instrument ID...: MSD  
Analyst ID.....: 015590

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	92	(60 - 150)	SW846 8260B
Benzene	85	(70 - 140)	SW846 8260B
Trichloroethene	95	(70 - 130)	SW846 8260B
Toluene	98	(70 - 130)	SW846 8260B
Chlorobenzene	99	(70 - 130)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	86	(70 - 130)
1,2-Dichloroethane-d4	70	(60 - 140)
Toluene-d8	86	(70 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000106

BOE-C6-0211540

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: E1C260157      Work Order #....: DX3WK1AC      Matrix.....: SOLID  
LCS Lot-Sample#: E1C280000-308  
Prep Date.....: 03/27/01      Analysis Date...: 03/28/01  
Prep Batch #....: 1087308      Analysis Time...: 11:12  
Dilution Factor: 1      Instrument ID...: G15  
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	80	(80 - 140)	SW846 8015B
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS	
a,a,a-Trifluorotoluene (TFT)	102	(60 - 130)	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000107

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #....: E1C260157  
 LCS Lot-Sample#: E1C300000-535  
 Prep Date.....: 03/30/01  
 Prep Batch #....: 1089535  
 Dilution Factor: 1  
 Analyst ID.....: 015590

Work Order #....: DX9KJ1AC  
 Analysis Date...: 03/30/01  
 Analysis Time...: 08:46  
 Instrument ID...: MSD

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	109	(60 - 150)	SW846 8260B
Benzene	98	(70 - 140)	SW846 8260B
Trichloroethene	102	(70 - 130)	SW846 8260B
Toluene	97	(70 - 130)	SW846 8260B
Chlorobenzene	99	(70 - 130)	SW846 8260B

  

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	82	(70 - 130)
1,2-Dichloroethane-d4	79	(60 - 140)
Toluene-d8	85	(70 - 130)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000108

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #....: E1C260157      Work Order #....: DX9KM1AC      Matrix.....: SOLID  
 LCS Lot-Sample#: E1C300000-536  
 Prep Date.....: 03/30/01      Analysis Date...: 03/30/01  
 Prep Batch #....: 1089536      Analysis Time...: 11:23  
 Dilution Factor: 1      Instrument ID...: MSG  
 Analyst ID.....: 015590

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	
1,1-Dichloroethene	92	(60 - 150)	SW846 8260B
Benzene	88	(70 - 140)	SW846 8260B
Trichloroethene	82	(70 - 130)	SW846 8260B
Toluene	84	(70 - 130)	SW846 8260B
Chlorobenzene	83	(70 - 130)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Bromofluorobenzene	101	(70 - 130)
1,2-Dichloroethane-d4	97	(60 - 140)
Toluene-d8	102	(70 - 130)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000109

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**TOTAL Metals**

Client Lot #....: E1C260157

**Matrix.....: SOLID**

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#:	E1C260000-269	Prep Batch #....: 1085269			
Aluminum	86	(80 - 120)	SW846 6010B	03/26-03/27/01	DX0G51AV
		Dilution Factor: 1			
		Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01
Arsenic	95	(75 - 115)	SW846 6010B	03/26-03/27/01	DX0G51AW
		Dilution Factor: 1			
		Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01
Antimony	93	(75 - 115)	SW846 6010B	03/26-03/27/01	DX0G51AX
		Dilution Factor: 1			
		Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01
Barium	101	(80 - 120)	SW846 6010B	03/26-03/27/01	DX0G51A0
		Dilution Factor: 1			
		Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01
Cadmium	107	(80 - 120)	SW846 6010B	03/26-03/27/01	DX0G51A1
		Dilution Factor: 1			
		Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01
Chromium	112	(85 - 120)	SW846 6010B	03/26-03/27/01	DX0G51A2
		Dilution Factor: 1			
		Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01
Beryllium	110	(80 - 120)	SW846 6010B	03/26-03/27/01	DX0G51A3
		Dilution Factor: 1			
		Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01
Lead	96	(80 - 120)	SW846 6010B	03/26-03/27/01	DX0G51A4
		Dilution Factor: 1			
		Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01
Selenium	90	(70 - 115)	SW846 6010B	03/26-03/27/01	DX0G51A5
		Dilution Factor: 1			
		Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01
Silver	98	(80 - 120)	SW846 6010B	03/26-03/27/01	DX0G51A6
		Dilution Factor: 1			
		Analysis Time...: 19:36		Analyst ID.....: 003119	Instrument ID...: M01

(Continued on next page)

**000110**

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**TOTAL Metals**

Client Lot #....: E1C260157

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Cobalt	108	(80 - 120)	SW846 6010B	03/26-03/27/01	DX0G51A7
		Dilution Factor: 1			
		Analysis Time...: 19:36	Analyst ID.....: 003119	Instrument ID...: M01	
Copper	99	(80 - 120)	SW846 6010B	03/26-03/27/01	DX0G51A8
		Dilution Factor: 1			
		Analysis Time...: 19:36	Analyst ID.....: 003119	Instrument ID...: M01	
Molybdenum	100	(80 - 120)	SW846 6010B	03/26-03/27/01	DX0G51A9
		Dilution Factor: 1			
		Analysis Time...: 19:36	Analyst ID.....: 003119	Instrument ID...: M01	
Nickel	106	(80 - 120)	SW846 6010B	03/26-03/27/01	DX0G51CA
		Dilution Factor: 1			
		Analysis Time...: 19:36	Analyst ID.....: 003119	Instrument ID...: M01	
Thallium	93	(75 - 120)	SW846 6010B	03/26-03/27/01	DX0G51CC
		Dilution Factor: 1			
		Analysis Time...: 19:36	Analyst ID.....: 003119	Instrument ID...: M01	
Vanadium	105	(80 - 120)	SW846 6010B	03/26-03/27/01	DX0G51CD
		Dilution Factor: 1			
		Analysis Time...: 19:36	Analyst ID.....: 003119	Instrument ID...: M01	
Zinc	104	(80 - 120)	SW846 6010B	03/26-03/27/01	DX0G51CE
		Dilution Factor: 1			
		Analysis Time...: 19:36	Analyst ID.....: 003119	Instrument ID...: M01	
LCS Lot-Sample#:	E1C260000-270	Prep Batch #....:	1085270		
Mercury	103	(85 - 115)	SW846 7471A	03/27-03/28/01	DX0HC1AC
		Dilution Factor: 1			
		Analysis Time...: 11:03	Analyst ID.....: 021088	Instrument ID...: M04	

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

000111

## MATRIX SPIKE SAMPLE DATA REPORT

## GC/MS Volatiles

Client Lot #....: E1C260157      Work Order #....: DXT291AC-MS      Matrix.....: SOLID  
 MS Lot-Sample #: E1C220325-028      DXT291AD-MSD  
 Date Sampled...: 03/22/01 08:40      Date Received...: 03/22/01 17:45 MS Run #.....: 1089226  
 Prep Date.....: 03/29/01      Analysis Date...: 03/29/01  
 Prep Batch #....: 1089428      Analysis Time...: 23:09  
 Dilution Factor: 1      Analyst ID.....: 015590      Instrument ID...: MSG

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCENT		
	AMOUNT	AMT	AMOUNT		RECOVERY	RPD	METHOD
Benzene	ND	50.0	53.1	ug/kg	106		SW846 8260B
	ND	50.0	50.0	ug/kg	100	6.1	SW846 8260B
Chlorobenzene	ND	50.0	53.1	ug/kg	106		SW846 8260B
	ND	50.0	49.9	ug/kg	100	6.2	SW846 8260B
1,1-Dichloroethene	ND	50.0	54.2	ug/kg	108		SW846 8260B
	ND	50.0	50.5	ug/kg	101	7.0	SW846 8260B
Toluene	ND	50.0	52.8	ug/kg	106		SW846 8260B
	ND	50.0	49.7	ug/kg	99	6.1	SW846 8260B
Trichloroethene	ND	50.0	51.1	ug/kg	102		SW846 8260B
	ND	50.0	47.7	ug/kg	95	6.9	SW846 8260B

SURROGATE	PERCENT		RECOVERY LIMITS
	RECOVERY		
Bromofluorobenzene	106		(70 - 130)
	103		(70 - 130)
1,2-Dichloroethane-d4	96		(60 - 140)
	92		(60 - 140)
Toluene-d8	109		(70 - 130)
	104		(70 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000112

**MATRIX SPIKE SAMPLE DATA REPORT**

**GC/MS Volatiles**

Client Lot #....: E1C260157	Work Order #....: DXT3Q1AE-MS	Matrix.....: SOLID
MS Lot-Sample #: E1C220325-037		DXT3Q1AF-MSD
Date Sampled...: 03/22/01 09:30	Date Received...: 03/22/01 17:45	MS Run #.....: 1089271
Prep Date.....: 03/30/01	Analysis Date...: 03/30/01	
Prep Batch #....: 1089535	Analysis Time...: 13:32	
Dilution Factor: 1	Analyst ID.....: 015590	Instrument ID...: MSD

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCENT		
	AMOUNT	AMT	AMOUNT		RECOVERY	RPD	METHOD
1,1-Dichloroethene	ND	<b>50.0</b>	<b>54.4</b>	ug/kg	109		SW846 8260B
	ND	<b>50.0</b>	<b>61.8</b>	ug/kg	124	13	SW846 8260B
Benzene	ND	<b>50.0</b>	<b>49.4</b>	ug/kg	99		SW846 8260B
	ND	<b>50.0</b>	<b>50.0</b>	ug/kg	100	1.1	SW846 8260B
Trichloroethene	ND	<b>50.0</b>	<b>51.2</b>	ug/kg	102		SW846 8260B
	ND	<b>50.0</b>	<b>56.5</b>	ug/kg	113	9.8	SW846 8260B
Toluene	ND	<b>50.0</b>	<b>46.4</b>	ug/kg	93		SW846 8260B
	ND	<b>50.0</b>	<b>46.9</b>	ug/kg	94	1.0	SW846 8260B
Chlorobenzene	ND	<b>50.0</b>	<b>46.9</b>	ug/kg	94		SW846 8260B
	ND	<b>50.0</b>	<b>46.3</b>	ug/kg	93	1.4	SW846 8260B

SURROGATE	PERCENT		RECOVERY LIMITS
	RECOVERY		
Bromofluorobenzene	80		(70 - 130)
	79		(70 - 130)
1,2-Dichloroethane-d4	83		(60 - 140)
	95		(60 - 140)
Toluene-d8	84		(70 - 130)
	84		(70 - 130)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

CC0113

**MATRIX SPIKE SAMPLE DATA REPORT**

**TOTAL Metals**

Client Lot #....: E1C260157

Matrix.....: SOLID

Date Sampled...: 03/22/01 12:45 Date Received..: 03/23/01 17:05

PARAMETER	SAMPLE	SPIKE	MEASURED	UNITS	PERCNT	METHOD	PREPARATION-	WORK
	AMOUNT	AMT	AMOUNT		RECVRY		ANALYSIS DATE	ORDER #
Chromium								
	25.9	20.0	47.8	mg/kg	109	SW846 6010B	03/26-03/27/01	DXW2J1CD
	25.9	20.0	46.8	mg/kg	104	2.0 SW846 6010B	03/26-03/27/01	DXW2J1CE
	Dilution Factor: 1							
	Analysis Time...: 19:58							
	Instrument ID...: M01							
	MS Run #.....: 1085130							
Cobalt								
	10.5	50.0	63.0	mg/kg	105	SW846 6010B	03/26-03/27/01	DXW2J1CP
	10.5	50.0	59.3	mg/kg	98	6.0 SW846 6010B	03/26-03/27/01	DXW2J1CQ
	Dilution Factor: 1							
	Analysis Time...: 19:58							
	Instrument ID...: M01							
	MS Run #.....: 1085130							
Copper								
	17.9	25.0	42.7	mg/kg	99	SW846 6010B	03/26-03/27/01	DXW2J1CR
	17.9	25.0	42.7	mg/kg	99	0.09 SW846 6010B	03/26-03/27/01	DXW2J1CT
	Dilution Factor: 1							
	Analysis Time...: 19:58							
	Instrument ID...: M01							
	MS Run #.....: 1085130							
Lead								
	5.0	50.0	52.8	mg/kg	96	SW846 6010B	03/26-03/27/01	DXW2J1CH
	5.0	50.0	51.4	mg/kg	93	2.7 SW846 6010B	03/26-03/27/01	DXW2J1CJ
	Dilution Factor: 1							
	Analysis Time...: 19:58							
	Instrument ID...: M01							
	MS Run #.....: 1085130							
Molybdenum								
	0.60	100	93.4	mg/kg	93	SW846 6010B	03/26-03/27/01	DXW2J1CU
	0.60	100	91.5	mg/kg	91	2.1 SW846 6010B	03/26-03/27/01	DXW2J1CV
	Dilution Factor: 1							
	Analysis Time...: 19:58							
	Instrument ID...: M01							
	MS Run #.....: 1085130							
Nickel								
	16.7	50.0	67.5	mg/kg	102	SW846 6010B	03/26-03/27/01	DXW2J1CW
	16.7	50.0	65.5	mg/kg	98	3.0 SW846 6010B	03/26-03/27/01	DXW2J1CX
	Dilution Factor: 1							
	Analysis Time...: 19:58							
	Instrument ID...: M01							
	MS Run #.....: 1085130							
Selenium								
	ND	200	181	mg/kg	90	SW846 6010B	03/26-03/27/01	DXW2J1CK
	ND	200	178	mg/kg	89	1.7 SW846 6010B	03/26-03/27/01	DXW2J1CL
	Dilution Factor: 1							
	Analysis Time...: 19:58							
	Instrument ID...: M01							
	MS Run #.....: 1085130							
	000115							

**MATRIX SPIKE SAMPLE DATA REPORT**

**TOTAL Metals**

**Client Lot #....:** E1C260157

**Matrix.....:** SOLID

**Date Sampled....:** 03/22/01 12:45 **Date Received..:** 03/23/01 17:05

<b>PARAMETER</b>	<b>SAMPLE</b>	<b>SPIKE</b>	<b>MEASURED</b>	<b>UNITS</b>	<b>PERCNT</b>	<b>METHOD</b>	<b>PREPARATION-</b>	<b>WORK</b>
	<b>AMOUNT</b>	<b>AMT</b>	<b>AMOUNT</b>		<b>RECVRY</b>		<b>RPD</b>	<b>ANALYSIS DATE</b>
Silver	ND	5.00	4.65	mg/kg	93	SW846 6010B	03/26-03/27/01	DXW2J1CM
	ND	5.00	4.57	mg/kg	91	1.9 SW846 6010B	03/26-03/27/01	DXW2J1CN
	Dilution Factor: 1							
	Analysis Time...: 19:58					Instrument ID...: M01		Analyst ID.....: 003119
	MS Run #.....: 1085130							

**Thallium**

1.2	200	191	mg/kg	95	SW846 6010B	03/26-03/27/01	DXW2J1C0	
1.2	200	187	mg/kg	93	1.9 SW846 6010B	03/26-03/27/01	DXW2J1C1	
	Dilution Factor: 1							
	Analysis Time...: 19:58					Instrument ID...: M01		Analyst ID.....: 003119
	MS Run #.....: 1085130							

**Vanadium**

50.6	50.0	101	mg/kg	101	SW846 6010B	03/26-03/27/01	DXW2J1C2	
50.6	50.0	98.9	mg/kg	97	2.0 SW846 6010B	03/26-03/27/01	DXW2J1C3	
	Dilution Factor: 1							
	Analysis Time...: 19:58					Instrument ID...: M01		Analyst ID.....: 003119
	MS Run #.....: 1085130							

**Zinc**

49.7	50.0	103	mg/kg	106	SW846 6010B	03/26-03/27/01	DXW2J1C4	
49.7	50.0	104	mg/kg	108	0.80 SW846 6010B	03/26-03/27/01	DXW2J1C5	
	Dilution Factor: 1							
	Analysis Time...: 19:58					Instrument ID...: M01		Analyst ID.....: 003119
	MS Run #.....: 1085130							

**MS Lot-Sample #:** E1C230317-003 **Prep Batch #....:** 1085270

**Mercury**

0.043	0.167	0.200	mg/kg	94	SW846 7471A	03/27-03/28/01	DXW2J1C6	
0.043	0.167	0.203	mg/kg	96	1.6 SW846 7471A	03/27-03/28/01	DXW2J1C7	
	Dilution Factor: 1							
	Analysis Time...: 11:07					Instrument ID...: M04		Analyst ID.....: 021088
	MS Run #.....: 1085131							

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

**CCC116**

**MATRIX SPIKE SAMPLE DATA REPORT**

**GC Semivolatiles**

<b>Client Lot #....:</b> E1C260157	<b>Work Order #....:</b> DX01E1A2-MS	<b>Matrix.....:</b> SOLID
<b>MS Lot-Sample #:</b> E1C260157-001	DX01E1A3-MSD	
<b>Date Sampled....:</b> 03/19/01 10:30	<b>Date Received...:</b> 03/26/01 14:20	<b>MS Run #.....:</b> 1085281
<b>Prep Date.....:</b> 03/26/01	<b>Analysis Date...:</b> 03/27/01	
<b>Prep Batch #....:</b> 1085525	<b>Analysis Time...:</b> 16:37	
<b>Dilution Factor:</b> 1	<b>Analyst ID.....:</b> 356074	<b>Instrument ID..:</b> G03

<b>PARAMETER</b>	<b>SAMPLE SPIKE MEASRD</b>				<b>PERCENT</b>		
	<b>AMOUNT</b>	<b>AMT</b>	<b>AMOUNT</b>	<b>UNITS</b>	<b>RECOVERY</b>	<b>RPD</b>	<b>METHOD</b>
<b>TPH (as Diesel)</b>	ND	250	184	mg/kg	74		SW846 8015B
	ND	250	182	mg/kg	73	1.4	SW846 8015B

<b>SURROGATE</b>	<b>PERCENT</b>			<b>RECOVERY</b>	
	<b>RECOVERY</b>			<b>LIMITS</b>	
Benzo(a)pyrene	67			(60 - 130)	
	64			(60 - 130)	

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000117

**MATRIX SPIKE SAMPLE DATA REPORT**

**GC/MS Volatiles**

Client Lot #....:	E1C260157	Work Order #....:	DX01E1A4-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1C260157-001			DX01E1A5-MSD	
Date Sampled....:	03/19/01 10:30	Date Received...:	03/26/01 14:20	MS Run #.....:	1087164
Prep Date.....:	03/27/01	Analysis Date...:	03/27/01		
Prep Batch #....:	1087297	Analysis Time...:	23:02		
Dilution Factor:	1	Analyst ID.....:	015590	Instrument ID...:	MSD

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCENT		
	AMOUNT	AMT	AMOUNT		RECOVERY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	45.1	ug/kg	90		SW846 8260B
	ND	50.0	43.7	ug/kg	87	3.2	SW846 8260B
Benzene	ND	50.0	47.4	ug/kg	95		SW846 8260B
	ND	50.0	47.7	ug/kg	95	0.82	SW846 8260B
Trichloroethene	ND	50.0	47.2	ug/kg	94		SW846 8260B
	ND	50.0	45.8	ug/kg	92	2.9	SW846 8260B
Toluene	ND	50.0	47.8	ug/kg	96		SW846 8260B
	ND	50.0	46.6	ug/kg	93	2.5	SW846 8260B
Chlorobenzene	ND	50.0	47.7	ug/kg	95		SW846 8260B
	ND	50.0	46.9	ug/kg	94	1.7	SW846 8260B

SURROGATE	PERCENT		RECOVERY	LIMITS
	RECOVERY			
Bromofluorobenzene	95		(70 - 130)	
1,2-Dichloroethane-d4	95		(70 - 130)	
	88		(60 - 140)	
Toluene-d8	94		(60 - 140)	
	95		(70 - 130)	
	95		(70 - 130)	

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

**000118**

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: E1C260157      Work Order #....: DX01N1A1-MS      Matrix.....: SOLID  
MS Lot-Sample #: E1C260157-007      DX01N1A2-MSD  
Date Sampled....: 03/21/01 10:25      Date Received...: 03/26/01 14:20 MS Run #.....: 1087176  
Prep Date.....: 03/27/01      Analysis Date...: 03/27/01  
Prep Batch #....: 1087308      Analysis Time...: 17:01  
Dilution Factor: 1      Analyst ID.....: 001464      Instrument ID...: G15

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCENT		
	AMOUNT	AMT	AMOUNT	RECOVERY	RPD	METHOD
TPH (as Gasoline)	ND	5.00	5.27	mg/kg	105	SW846 8015B
	ND	5.00	5.24	mg/kg	105	0.62 SW846 8015B

SURROGATE	PERCENT			RECOVERY
	RECOVERY			LIMITS
a,a,a-Trifluorotoluene (TFT)	116			(60 - 130)
	110			(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000119

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**GC/MS Volatiles**

Client Lot #....:	E1C260157	Work Order #....:	DXT291AC-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1C220325-028				DXT291AD-MSD
Date Sampled....:	03/22/01 08:40	Date Received...:	03/22/01 17:45	MS Run #.....:	1089226
Prep Date.....:	03/29/01	Analysis Date...:	03/29/01		
Prep Batch #....:	1089428	Analysis Time...:	23:09		
Dilution Factor:	1	Analyst ID.....:	015590	Instrument ID...:	MSG

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>
Benzene	106	(70 - 140)			SW846 8260B
	100	(70 - 140)	6.1	(0-30)	SW846 8260B
Chlorobenzene	106	(70 - 130)			SW846 8260B
	100	(70 - 130)	6.2	(0-30)	SW846 8260B
1,1-Dichloroethene	108	(60 - 150)			SW846 8260B
	101	(60 - 150)	7.0	(0-30)	SW846 8260B
Toluene	106	(70 - 130)			SW846 8260B
	99	(70 - 130)	6.1	(0-30)	SW846 8260B
Trichloroethene	102	(70 - 130)			SW846 8260B
	95	(70 - 130)	6.9	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	106	(70 - 130)
	103	(70 - 130)
1,2-Dichloroethane-d4	96	(60 - 140)
	92	(60 - 140)
Toluene-d8	109	(70 - 130)
	104	(70 - 130)

**NOTE (S) :**

-Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

CCC120

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**GC/MS Volatiles**

Client Lot #....: E1C260157	Work Order #....: DXT3Q1AE-MS	Matrix.....: SOLID
MS Lot-Sample #: E1C220325-037		DXT3Q1AF-MSD
Date Sampled...: 03/22/01 09:30	Date Received...: 03/22/01 17:45	MS Run #.....: 1089271
Prep Date.....: 03/30/01	Analysis Date...: 03/30/01	
Prep Batch #....: 1089535	Analysis Time...: 13:32	
Dilution Factor: 1	Analyst ID.....: 015590	Instrument ID...: MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	<b>109</b>	(60 - 150)			SW846 8260B
Benzene	124	(60 - 150)	13	(0-30)	SW846 8260B
Trichloroethene	99	(70 - 140)			SW846 8260B
Toluene	100	(70 - 140)	1.1	(0-30)	SW846 8260B
Chlorobenzene	102	(70 - 130)			SW846 8260B
	113	(70 - 130)	9.8	(0-30)	SW846 8260B
	93	(70 - 130)			SW846 8260B
	94	(70 - 130)	1.0	(0-30)	SW846 8260B
	94	(70 - 130)			SW846 8260B
	93	(70 - 130)	1.4	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	80	(70 - 130)
1,2-Dichloroethane-d4	79	(70 - 130)
Toluene-d8	83	(60 - 140)
	95	(60 - 140)
	84	(70 - 130)
	84	(70 - 130)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000121

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**TOTAL Metals**

**Client Lot #....:** E1C260157

**Matrix.....:** SOLID

**Date Sampled....:** 03/22/01 12:45 **Date Received..:** 03/23/01 17:05

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MS Lot-Sample #:</b> E1C230317-003 <b>Prep Batch #....:</b> 1085269							
Aluminum	NC	(80 - 120)			SW846 6010B	03/26-03/27/01	DXW2J1A2
	NC	(80 - 120)	(0-25)		SW846 6010B	03/26-03/27/01	DXW2J1A3
				Dilution Factor: 1			
				Analysis Time...: 19:58	Instrument ID...: M01		Analyst ID.....: 003119
				MS Run #.....: 1085130			
Antimony	23 N	(75 - 115)			SW846 6010B	03/26-03/27/01	DXW2J1A6
	22 N	(75 - 115) 4.5	(0-25)		SW846 6010B	03/26-03/27/01	DXW2J1A7
				Dilution Factor: 1			
				Analysis Time...: 19:58	Instrument ID...: M01		Analyst ID.....: 003119
				MS Run #.....: 1085130			
Arsenic	93	(75 - 115)			SW846 6010B	03/26-03/27/01	DXW2J1A4
	91	(75 - 115) 2.3	(0-25)		SW846 6010B	03/26-03/27/01	DXW2J1A5
				Dilution Factor: 1			
				Analysis Time...: 19:58	Instrument ID...: M01		Analyst ID.....: 003119
				MS Run #.....: 1085130			
Barium	105	(80 - 120)			SW846 6010B	03/26-03/27/01	DXW2J1A8
	108	(80 - 120) 2.1	(0-25)		SW846 6010B	03/26-03/27/01	DXW2J1A9
				Dilution Factor: 1			
				Analysis Time...: 19:58	Instrument ID...: M01		Analyst ID.....: 003119
				MS Run #.....: 1085130			
Beryllium	106	(80 - 120)			SW846 6010B	03/26-03/27/01	DXW2J1CF
	104	(80 - 120) 2.1	(0-25)		SW846 6010B	03/26-03/27/01	DXW2J1CG
				Dilution Factor: 1			
				Analysis Time...: 19:58	Instrument ID...: M01		Analyst ID.....: 003119
				MS Run #.....: 1085130			
Cadmium	89	(80 - 120)			SW846 6010B	03/26-03/27/01	DXW2J1CA
	88	(80 - 120) 2.1	(0-25)		SW846 6010B	03/26-03/27/01	DXW2J1CC
				Dilution Factor: 1			
				Analysis Time...: 19:58	Instrument ID...: M01		Analyst ID.....: 003119
				MS Run #.....: 1085130			
Chromium	109	(85 - 120)			SW846 6010B	03/26-03/27/01	DXW2J1CD
	104	(85 - 120) 2.0	(0-25)		SW846 6010B	03/26-03/27/01	DXW2J1CE
				Dilution Factor: 1			
				Analysis Time...: 19:58	Instrument ID...: M01		Analyst ID.....: 003119
				MS Run #.....: 1085130			

(Continued on next page)

**000122**

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**TOTAL Metals**

**Client Lot #....:** E1C260157

**Matrix.....:** SOLID

**Date Sampled....:** 03/22/01 12:45 **Date Received..:** 03/23/01 17:05

<b>PARAMETER</b>	<b>PERCENT</b>	<b>RECOVERY</b>	<b>RPD</b>	<b>METHOD</b>	<b>PREPARATION-</b>	<b>WORK</b>
	<b>RECOVERY</b>	<b>LIMITS</b>	<b>RPD</b>		<b>ANALYSIS DATE</b>	<b>ORDER #</b>
Cobalt	105	(80 - 120)		SW846 6010B	03/26-03/27/01	DXW2J1CP
	98	(80 - 120) 6.0	(0-25)	SW846 6010B	03/26-03/27/01	DXW2J1CQ
		Dilution Factor: 1				
		Analysis Time...: 19:58		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1085130				
Copper	99	(80 - 120)		SW846 6010B	03/26-03/27/01	DXW2J1CR
	99	(80 - 120) 0.09	(0-25)	SW846 6010B	03/26-03/27/01	DXW2J1CT
		Dilution Factor: 1				
		Analysis Time...: 19:58		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1085130				
Lead	96	(80 - 120)		SW846 6010B	03/26-03/27/01	DXW2J1CH
	93	(80 - 120) 2.7	(0-25)	SW846 6010B	03/26-03/27/01	DXW2J1CJ
		Dilution Factor: 1				
		Analysis Time...: 19:58		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1085130				
Molybdenum	93	(80 - 120)		SW846 6010B	03/26-03/27/01	DXW2J1CU
	91	(80 - 120) 2.1	(0-25)	SW846 6010B	03/26-03/27/01	DXW2J1CV
		Dilution Factor: 1				
		Analysis Time...: 19:58		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1085130				
Nickel	102	(80 - 120)		SW846 6010B	03/26-03/27/01	DXW2J1CW
	98	(80 - 120) 3.0	(0-25)	SW846 6010B	03/26-03/27/01	DXW2J1CX
		Dilution Factor: 1				
		Analysis Time...: 19:58		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1085130				
Selenium	90	(70 - 115)		SW846 6010B	03/26-03/27/01	DXW2J1CK
	89	(70 - 115) 1.7	(0-25)	SW846 6010B	03/26-03/27/01	DXW2J1CL
		Dilution Factor: 1				
		Analysis Time...: 19:58		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1085130				
Silver	93	(80 - 120)		SW846 6010B	03/26-03/27/01	DXW2J1CM
	91	(80 - 120) 1.9	(0-25)	SW846 6010B	03/26-03/27/01	DXW2J1CN
		Dilution Factor: 1				
		Analysis Time...: 19:58		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1085130				
Thallium	95	(75 - 120)		SW846 6010B	03/26-03/27/01	DXW2J1C0
	93	(75 - 120) 1.9	(0-25)	SW846 6010B	03/26-03/27/01	DXW2J1C1
		Dilution Factor: 1				
		Analysis Time...: 19:58		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1085130				

(Continued on next page)

**000123**

MATRIX SPIKE SAMPLE EVALUATION REPORT

**TOTAL Metals**

Client Lot #....: E1C260157

Date Sampled...: 03/22/01 12:45 Date Received..: 03/23/01 17:05

Matrix.....: SOLID

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	RPD <u>RPD</u>	METHOD <u>LIMITS</u>	PREPARATION-		WORK <u>ORDER #</u>
					<u>ANALYSIS DATE</u>	<u>WORK</u>	
Vanadium	101	(80 - 120)		SW846 6010B	03/26-03/27/01	DXW2J1C2	
	97	(80 - 120) 2.0 (0-25)		SW846 6010B	03/26-03/27/01	DXW2J1C3	
		Dilution Factor: 1					
		Analysis Time...: 19:58		Instrument ID...: M01		Analyst ID.....: 003119	
		MS Run #.....: 1085130					
Zinc	106	(80 - 120)		SW846 6010B	03/26-03/27/01	DXW2J1C4	
	108	(80 - 120) 0.80 (0-25)		SW846 6010B	03/26-03/27/01	DXW2J1C5	
		Dilution Factor: 1					
		Analysis Time...: 19:58		Instrument ID...: M01		Analyst ID.....: 003119	
		MS Run #.....: 1085130					
MS Lot-Sample #:	E1C230317-003	Prep Batch #....:	1085270				
Mercury	94	(80 - 120)		SW846 7471A	03/27-03/28/01	DXW2J1C6	
	96	(80 - 120) 1.6 (0-20)		SW846 7471A	03/27-03/28/01	DXW2J1C7	
		Dilution Factor: 1					
		Analysis Time...: 11:07		Instrument ID...: M04		Analyst ID.....: 021088	
		MS Run #.....: 1085131					

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

000124

## MATRIX SPIKE SAMPLE EVALUATION REPORT

#### GC Semivolatiles

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
<b>TPH (as Diesel)</b>	74	(60 - 130)			SW846 8015B
	73	(60 - 130)	1.4	(0-35)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Benzo (a) pyrene	67	(60 - 130)
	64	(60 - 130)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Bold print** denotes control parameters

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**GC/MS Volatiles**

<b>Client Lot #....:</b> E1C260157	<b>Work Order #....:</b> DX01E1A4-MS	<b>Matrix.....:</b> SOLID
<b>MS Lot-Sample #:</b> E1C260157-001	DX01E1A5-MSD	
<b>Date Sampled....:</b> 03/19/01 10:30	<b>Date Received...:</b> 03/26/01 14:20	<b>MS Run #.....:</b> 1087164
<b>Prep Date.....:</b> 03/27/01	<b>Analysis Date...:</b> 03/27/01	
<b>Prep Batch #....:</b> 1087297	<b>Analysis Time...:</b> 23:02	
<b>Dilution Factor:</b> 1	<b>Analyst ID.....:</b> 015590	<b>Instrument ID...:</b> MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	90	(60 - 150)			SW846 8260B
	87	(60 - 150)	3.2	(0-30)	SW846 8260B
Benzene	95	(70 - 140)			SW846 8260B
	95	(70 - 140)	0.82	(0-30)	SW846 8260B
Trichloroethene	94	(70 - 130)			SW846 8260B
	92	(70 - 130)	2.9	(0-30)	SW846 8260B
Toluene	96	(70 - 130)			SW846 8260B
	93	(70 - 130)	2.5	(0-30)	SW846 8260B
Chlorobenzene	95	(70 - 130)			SW846 8260B
	94	(70 - 130)	1.7	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	95	(70 - 130)
	95	(70 - 130)
1,2-Dichloroethane-d4	88	(60 - 140)
	94	(60 - 140)
Toluene-d8	95	(70 - 130)
	95	(70 - 130)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Bold** print denotes control parameters

**000126**

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: E1C260157      Work Order #....: DX01N1A1-MS      Matrix.....: SOLID  
MS Lot-Sample #: E1C260157-007      DX01N1A2-MSD  
Date Sampled...: 03/21/01 10:25 Date Received...: 03/26/01 14:20 MS Run #.....: 1087176  
Prep Date.....: 03/27/01 Analysis Date...: 03/27/01  
Prep Batch #....: 1087308 Analysis Time...: 17:01  
Dilution Factor: 1 Analyst ID.....: 001464      Instrument ID...: G15

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>
TPH (as Gasoline)	<b>105</b>	(80 - 140)			SW846 8015B
	<b>105</b>	(80 - 140)	0.62	(0-40)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
a,a,a-Trifluorotoluene (TFT)	116	(60 - 130)
	110	(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000127

## LABORATORY REPORT

Prepared For: STL Los Angeles  
1721 S. Grand Avenue  
Santa Ana, CA 92705

Attention: Diane Suzuki  
Project: E1C260157  
PO# SR029864

Sampled: 03/19/01  
Received: 03/26/01  
Reported: 03/30/01

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Del Mar Analytical, Colton  
Clinton J. Kiser  
Project Manager

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**000129**

STL Los Angeles  
1721 S. Grand Avenue  
Santa Ana, CA 92705  
Attention: Diane Suzuki

Client Project ID: E1C260157  
PO# SR029864  
Report Number: CKC0249

Sampled:03/19/01-03/26/01  
Received:03/26/01

### POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Reporting Batch	Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
				ug/kg	ug/kg			
<b>Sample ID: CKC0249-01 (Source-N-031901-1 - Soil)</b>								<b>RL-1</b>
Acenaphthene	EPA 8310	C1C2805	100	ND	2	3/28/01	3/29/01	
Acenaphthylene	EPA 8310	C1C2805	100	ND	2	3/28/01	3/29/01	
anthracene	EPA 8310	C1C2805	4.0	ND	2	3/28/01	3/29/01	
benzo(a)anthracene	EPA 8310	C1C2805	4.0	ND	2	3/28/01	3/29/01	
Benzo(a)pyrene	EPA 8310	C1C2805	4.0	ND	2	3/28/01	3/29/01	
benzo(b)fluoranthene	EPA 8310	C1C2805	10	ND	2	3/28/01	3/29/01	
benzo(g,h,i)perylene	EPA 8310	C1C2805	10	ND	2	3/28/01	3/29/01	
benzo(k)fluoranthene	EPA 8310	C1C2805	4.0	ND	2	3/28/01	3/29/01	
Chrysene	EPA 8310	C1C2805	10	ND	2	3/28/01	3/29/01	
benzo(a,h)anthracene	EPA 8310	C1C2805	10	ND	2	3/28/01	3/29/01	
fluoranthene	EPA 8310	C1C2805	10	ND	2	3/28/01	3/29/01	
Fluorene	EPA 8310	C1C2805	10	ND	2	3/28/01	3/29/01	
benzo(1,2,3-cd)pyrene	EPA 8310	C1C2805	10	ND	2	3/28/01	3/29/01	
isophthalene	EPA 8310	C1C2805	40	ND	2	3/28/01	3/29/01	
phenanthrene	EPA 8310	C1C2805	10	ND	2	3/28/01	3/29/01	
rene	EPA 8310	C1C2805	10	ND	2	3/28/01	3/29/01	
<i>Surrogate: 2-Methylanthracene (35-115%)</i>								71.9 %
<b>Sample ID: CKC0249-02 (Source-L-031901-1 - Soil)</b>								<b>Sampled: 03/19/01</b>
Acenaphthene	EPA 8310	C1C2805	1000	ND	20	3/28/01	3/29/01	
Acenaphthylene	EPA 8310	C1C2805	1000	ND	20	3/28/01	3/29/01	
anthracene	EPA 8310	C1C2805	40	ND	20	3/28/01	3/29/01	
benzo(a)anthracene	EPA 8310	C1C2805	40	ND	20	3/28/01	3/29/01	
benzo(a)pyrene	EPA 8310	C1C2805	40	ND	20	3/28/01	3/29/01	
benzo(b)fluoranthene	EPA 8310	C1C2805	100	ND	20	3/28/01	3/29/01	
benzo(g,h,i)perylene	EPA 8310	C1C2805	100	ND	20	3/28/01	3/29/01	
benzo(k)fluoranthene	EPA 8310	C1C2805	40	ND	20	3/28/01	3/29/01	
Chrysene	EPA 8310	C1C2805	100	ND	20	3/28/01	3/29/01	
benzo(a,h)anthracene	EPA 8310	C1C2805	100	130	20	3/28/01	3/29/01	
fluoranthene	EPA 8310	C1C2805	100	120	20	3/28/01	3/29/01	
rene	EPA 8310	C1C2805	100	ND	20	3/28/01	3/29/01	
benzeno(1,2,3-cd)pyrene	EPA 8310	C1C2805	100	ND	20	3/28/01	3/29/01	
Naphthalene	EPA 8310	C1C2805	400	ND	20	3/28/01	3/29/01	
phenanthrene	EPA 8310	C1C2805	100	ND	20	3/28/01	3/29/01	
rene	EPA 8310	C1C2805	100	ND	20	3/28/01	3/29/01	
<i>Surrogate: 2-Methylanthracene (35-115%)</i>								99.8 %

Del Mar Analytical, Colton  
Trifton J. Kiser  
Project Manager

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0001 20

BOE-C6-0211562

STL Los Angeles  
 1721 S. Grand Avenue  
 Santa Ana, CA 92705  
 Attention: Diane Suzuki

Client Project ID: E1C260157  
 PO# SR029864  
 Report Number: CKC0249

Sampled: 03/19/01-03/26/01  
 Received: 03/26/01

### POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
<b>Sample ID: CKC0249-03 (Source-O-032601-1 - Soil)</b>								
Acenaphthene	EPA 8310	C1C2805	50	ND	1	3/28/01	3/29/01	
Acenaphthylene	EPA 8310	C1C2805	50	ND	1	3/28/01	3/29/01	
Anthracene	EPA 8310	C1C2805	2.0	ND	1	3/28/01	3/29/01	
Benzo(a)anthracene	EPA 8310	C1C2805	2.0	ND	1	3/28/01	3/29/01	
Benzo(a)pyrene	EPA 8310	C1C2805	2.0	ND	1	3/28/01	3/29/01	
Benzo(b)fluoranthene	EPA 8310	C1C2805	5.0	ND	1	3/28/01	3/29/01	
Benzo(g,h,i)perylene	EPA 8310	C1C2805	5.0	ND	1	3/28/01	3/29/01	
Benzo(k)fluoranthene	EPA 8310	C1C2805	2.0	ND	1	3/28/01	3/29/01	
Brycene	EPA 8310	C1C2805	5.0	ND	1	3/28/01	3/29/01	
benzo(a,h)anthracene	EPA 8310	C1C2805	5.0	ND	1	3/28/01	3/29/01	
Fluoranthene	EPA 8310	C1C2805	5.0	ND	1	3/28/01	3/29/01	
Fluorene	EPA 8310	C1C2805	5.0	ND	1	3/28/01	3/29/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1C2805	5.0	ND	1	3/28/01	3/29/01	
Naphthalene	EPA 8310	C1C2805	20	ND	1	3/28/01	3/29/01	
Phenanthrene	EPA 8310	C1C2805	5.0	ND	1	3/28/01	3/29/01	
Trene	EPA 8310	C1C2805	5.0	ND	1	3/28/01	3/29/01	
<i>Surrogate: 2-Methylanthracene (35-115%)</i>								
<b>Sample ID: CKC0249-04 (Source-O-032601-2 - Soil)</b>								
Acenaphthene	EPA 8310	C1C2805	2500	ND	50	3/28/01	3/29/01	
Acenaphthylene	EPA 8310	C1C2805	2500	ND	50	3/28/01	3/29/01	
Anthracene	EPA 8310	C1C2805	100	ND	50	3/28/01	3/29/01	
Benzo(a)anthracene	EPA 8310	C1C2805	100	ND	50	3/28/01	3/29/01	
Benzo(a)pyrene	EPA 8310	C1C2805	100	ND	50	3/28/01	3/29/01	
Benzo(b)fluoranthene	EPA 8310	C1C2805	250	ND	50	3/28/01	3/29/01	
Benzo(g,h,i)perylene	EPA 8310	C1C2805	250	ND	50	3/28/01	3/29/01	
Benzo(k)fluoranthene	EPA 8310	C1C2805	100	ND	50	3/28/01	3/29/01	
Brycene	EPA 8310	C1C2805	250	ND	50	3/28/01	3/29/01	
Dibenzo(a,h)anthracene	EPA 8310	C1C2805	250	250	50	3/28/01	3/29/01	
Fluoranthene	EPA 8310	C1C2805	250	280	50	3/28/01	3/29/01	
Trene	EPA 8310	C1C2805	250	ND	50	3/28/01	3/29/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1C2805	250	ND	50	3/28/01	3/29/01	
Naphthalene	EPA 8310	C1C2805	1000	ND	50	3/28/01	3/29/01	
Phenanthrene	EPA 8310	C1C2805	250	ND	50	3/28/01	3/29/01	
Trene	EPA 8310	C1C2805	250	ND	50	3/28/01	3/29/01	
<i>Surrogate: 2-Methylanthracene (35-115%)</i>								
45.6 %								
<b>Sample ID: CKC0249-05 (Source-O-032601-3 - Soil)</b>								
67.0 %								

Del Mar Analytical, Colton  
 Lifton J. Kiser  
 Project Manager

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0001 24

BOE-C6-0211563

STL Los Angeles  
 721 S. Grand Avenue  
 Santa Ana, CA 92705  
 Attention: Diane Suzuki

Client Project ID: E1C260157  
 PO# SR029864  
 Report Number: CKC0249

Sampled:03/19/01-03/26/01  
 Received:03/26/01

### METHOD BLANK/QC DATA

#### POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Data Limit Qualifiers
<u>Batch: C1C2805 Extracted: 03/28/01</u>									
Blank Analyzed: 03/28/01 (C1C2805-BLK1)									
Acenaphthene	ND	50	ug/kg						
Acenaphthylene	ND	50	ug/kg						
Anthracene	ND	2.0	ug/kg						
Benzo(a)anthracene	ND	2.0	ug/kg						
Benzo(a)pyrene	ND	2.0	ug/kg						
Benzo(b)fluoranthene	ND	5.0	ug/kg						
Benzo(g,h,i)perylene	ND	5.0	ug/kg						
Benzo(k)fluoranthene	ND	2.0	ug/kg						
Chrysene	ND	5.0	ug/kg						
Dibenzo(a,h)anthracene	ND	5.0	ug/kg						
Fluoranthene	ND	5.0	ug/kg						
Fluorene	ND	5.0	ug/kg						
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg						
Naphthalene	ND	20	ug/kg						
Phenanthrene	ND	5.0	ug/kg						
Trene	ND	5.0	ug/kg						
Surrogate: 2-Methylnanthracene	6.97		ug/kg	8.00		87.1	35-115		
<u>BS Analyzed: 03/28/01 (C1C2805-BS1)</u>									
Acenaphthene	68.3	50	ug/kg	80.0		85.4	45-115		
Acenaphthylene	141	50	ug/kg	160		88.1	50-115		
Anthracene	6.88	2.0	ug/kg	8.00		86.0	55-115		
Benzo(a)anthracene	7.87	2.0	ug/kg	8.00		98.4	65-115		
Benzo(a)pyrene	7.25	2.0	ug/kg	8.00		90.6	55-115		
Benzo(b)fluoranthene	14.2	5.0	ug/kg	16.0		88.7	65-115		
Benzo(g,h,i)perylene	14.7	5.0	ug/kg	16.0		91.9	60-115		
Benzo(k)fluoranthene	6.86	2.0	ug/kg	8.00		85.8	65-115		
Chrysene	6.93	5.0	ug/kg	8.00		86.6	65-115		
Dibenzo(a,h)anthracene	13.8	5.0	ug/kg	16.0		86.3	60-115		
Fluoranthene	13.8	5.0	ug/kg	16.0		86.3	65-115		
Fluorene	14.2	5.0	ug/kg	16.0		88.7	55-115		
Indeno(1,2,3-cd)pyrene	6.89	5.0	ug/kg	8.00		86.1	55-115		
Phthalene	65.1	20	ug/kg	80.0		81.4	45-115		
Phenanthrene	6.56	5.0	ug/kg	8.00		82.0	55-120		
Tyrene	7.25	5.0	ug/kg	8.00		90.6	55-115		

Del Mar Analytical, Colton  
 Clifford J. Kiser  
 Project Manager

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STL Los Angeles  
721 S. Grand Avenue  
Santa Ana, CA 92705  
Attention: Diane Suzuki

Client Project ID: E1C260157  
PO# SR029864  
Report Number: CKC0249

Sampled:03/19/01-03/26/01  
Received:03/26/01

## METHOD BLANK/QC DATA

### POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: C1C2805 Extracted: 03/28/01</u>										
<u>CS Analyzed: 03/28/01 (C1C2805-BS1)</u>										
<u>Surrogate: 2-Methylnanthracene</u>										
	6.94		ug/kg	8.00		86.8	35-115			
<u>Matrix Spike Analyzed: 03/28/01 (C1C2805-MS1)</u>										
Acenaphthene	61.8	50	ug/kg	80.0	ND	77.2	40-115			
Acenaphthylene	128	50	ug/kg	160	ND	80.0	35-130			
Anthracene	6.12	2.0	ug/kg	8.00	ND	76.5	40-115			
Benz(a)anthracene	6.84	2.0	ug/kg	8.00	ND	85.5	45-130			
Benz(a)pyrene	6.45	2.0	ug/kg	8.00	ND	80.6	50-115			
Benz(b)fluoranthene	12.4	5.0	ug/kg	16.0	ND	58.7	40-130			
Benz(g,h,i)perylene	12.7	5.0	ug/kg	16.0	ND	79.4	45-115			
Benz(k)fluoranthene	5.90	2.0	ug/kg	8.00	ND	73.8	40-125			
Crycene	6.69	5.0	ug/kg	8.00	ND	83.6	45-125			
Dibenzo(a,h)anthracene	12.6	5.0	ug/kg	16.0	ND	78.8	25-130			
Fluoranthene	13.5	5.0	ug/kg	16.0	ND	84.4	50-135			
Fluorene	12.9	5.0	ug/kg	16.0	ND	77.2	35-120			
Indeno(1,2,3-cd)pyrene	7.16	5.0	ug/kg	8.00	ND	77.0	40-120			
Naphthalene	56.6	20	ug/kg	80.0	ND	70.7	30-115			
Phenanthrene	7.34	5.0	ug/kg	8.00	ND	91.8	30-160			
Trene	7.53	5.0	ug/kg	8.00	ND	94.1	20-165			
Surrogate: 2-Methylnanthracene	5.42		ug/kg	8.00		67.8	35-115			
<u>Matrix Spike Dup Analyzed: 03/28/01 (C1C2805-MSD1)</u>										
					Source:	CKC0248-02				
Acenaphthene	63.1	50	ug/kg	80.0	ND	78.9	40-115	2.08	25	
Acenaphthylene	132	50	ug/kg	160	ND	82.5	35-130	3.08	25	
Anthracene	6.42	2.0	ug/kg	8.00	ND	80.3	40-115	4.78	25	
Benz(a)anthracene	7.18	2.0	ug/kg	8.00	ND	89.7	45-130	4.85	20	
Benz(a)pyrene	6.71	2.0	ug/kg	8.00	ND	83.9	50-115	3.95	20	
Benz(b)fluoranthene	13.2	5.0	ug/kg	16.0	ND	63.7	40-130	6.25	25	
Benz(g,h,i)perylene	13.6	5.0	ug/kg	16.0	ND	85.0	45-115	6.84	20	
Benz(k)fluoranthene	6.10	2.0	ug/kg	8.00	ND	76.2	40-125	3.33	25	
Crycene	6.85	5.0	ug/kg	8.00	ND	85.6	45-125	2.36	30	
Dibenzo(a,h)anthracene	12.8	5.0	ug/kg	16.0	ND	80.0	25-130	1.57	30	
Fluoranthene	14.0	5.0	ug/kg	16.0	ND	87.5	50-135	3.64	25	
Fluorene	13.8	5.0	ug/kg	16.0	ND	82.9	35-120	6.74	20	
Indeno(1,2,3-cd)pyrene	6.97	5.0	ug/kg	8.00	ND	74.6	40-120	2.69	20	

Del Mar Analytical, Colton  
Trifton J. Kiser  
Project Manager

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BOE-C6-0211565



**Del Mar Analytical**

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689  
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

STL Los Angeles  
 721 S. Grand Avenue  
 Santa Ana, CA 92705  
 Attention: Diane Suzuki

Client Project ID: E1C260157  
 PO# SR029864  
 Report Number: CKC0249

Sampled:03/19/01-03/26/01  
 Received:03/26/01

### METHOD BLANK/QC DATA

### POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Data Limit	Data Qualifiers
<u>Batch: C1C2805 Extracted: 03/28/01</u>										
<b>Matrix Spike Dup Analyzed: 03/28/01 (C1C2805-MSD1)</b>										
<b>Source: CKC0248-02</b>										
Phthalene	59.7	20	ug/kg	80.0	ND	74.6	30-115	5.33	25	
anthrene	7.43	5.0	ug/kg	8.00	ND	92.9	30-160	1.22	30	
pyrene	7.76	5.0	ug/kg	8.00	ND	97.0	20-165	3.01	20	
Surrogate: 2-Methylnaphthalene	5.75		ug/kg	8.00		71.9	35-115			

Del Mar Analytical, Colton  
 Clinton J. Kiser  
 Project Manager

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BOE-C6-0211566



# Del Mar Analytical

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1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689  
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

STL Los Angeles  
1721 S. Grand Avenue  
Santa Ana, CA 92705  
Attention: Diane Suzuki

Client Project ID: E1C260157  
PO# SR029864  
Report Number: CKC0249

Sampled:03/19/01-03/26/01  
Received:03/26/01

## DATA QUALIFIERS AND DEFINITIONS

- RL-1** Reporting limit raised due to sample matrix effects.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- NR** Not reported.
- RPD** Relative Percent Difference

Del Mar Analytical, Colton  
Clifton J. Kiser  
Project Manager

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**CKC0249 <Page 7 of 7>**

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BOE-C6-0211567

SEVERN  
TRENT  
SERVICES

March 29, 2001

STL LOT NUMBER: E1C140162  
PO/CONTRACT: 05160-SEV002

Jay Knight  
Kennedy/Jenks Consultants  
2151 Michelson Drive  
Suite 100  
Irvine, CA 92612

**STL Los Angeles**  
1721 South Grand Avenue  
Santa Ana, CA 92705-4808  
  
Tel: 714 258 8610  
Fax: 714 258 0921  
[www.stl-inc.com](http://www.stl-inc.com)

Dear Mr. Knight,

This report contains the analytical results for the 10 samples received under chain of custody by STL Los Angeles on March 14, 2001. These samples are associated with your BRC, former C-6 Torrance Harbor Gateway project.

Please note that the 8310 analysis was performed at Del Mar Analytical. See attached report for anomalies. All applicable quality control procedures meet method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading beyond 2 to 6 degrees Celsius is considered not within acceptable criteria unless otherwise noted such as limited transit time from field and test requested. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the test results performed at this facility and provided in this report meet all the requirements of NELAC certification number 01118CA. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at 714-258-8610.

Sincerely,



Diane Suzuki  
Project Manager

cc: Project File

This report contains 000123 pages.



Committed To Your Success

**SEVERN TRENT LABORATORIES**

No. 203087

**CUSTOMER INFORMATION**

COMPANY: Kennedy / Jenkins Consultants	PROJECT NUMBER: 0244034.00							
SEND REPORT TO: Jay Knight	BILLING INFORMATION							
ADDRESS: 2151 Richardson Dr. Suite 100 Irvine CA. 92612	BILL TO: Boeing Realty Co.							
PHONE: 949 - 261-1577	PHONE:							
FAX: 949 - 261-2134	FAX:							
SAMPLE NO	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MAX	CONTAINER	RESERV.	REMARKS/PRECAUTIONS	
	Source - H-031301-1	3/13/01	0910	Soil	246	Glass	Noone	
	Source - 4-031301-2		0930					
	Source - K-031301-1		1255					
	Source - K-031301-2		1300					
	Source - K-031301-3		1305					
	Source - K-031301-4		1310					
	Source - K-031301-5		1315					
	Source - K-031301-6		1320					
	Source - K-031301-7		1325					
	Source - K-031301-8	✓	1330	✓	✓	✓		
SAMPLER:							SHIPMENT METHOD:	
REQUIRED TURNAROUND*	<input type="checkbox"/> SAME DAY	<input type="checkbox"/> 24 HOURS	<input checked="" type="checkbox"/> 48 HOURS	<input type="checkbox"/> 72 HOURS	<input type="checkbox"/> 5 DAYS	<input type="checkbox"/> 10 DAYS	<input type="checkbox"/> ROUTINE	<input type="checkbox"/> OTHER
DATE ISSUED BY: <i>Severn Trent Laboratories</i>	DATE RECEIVED BY: <i>Boeing</i>		DATE ISSUED BY: <i>3/13/01</i>	DATE RECEIVED BY: <i>3/13/01</i>		DATE ISSUED BY: <i>3/13/01</i>	DATE RECEIVED BY: <i>3/13/01</i>	
SIGNATURE: <i>John</i>	PRINTED NAME/COMPANY: <i>K/5</i>		SIGNATURE: <i>John</i>	PRINTED NAME/COMPANY: <i>3/13/01</i>		SIGNATURE: <i>John</i>	PRINTED NAME/COMPANY: <i>3/13/01</i>	
RECEIVED BY: <i>John</i>	PRINTED NAME/COMPANY: <i>STC CA</i>		TIME ISSUED BY: <i>3/13/01</i>	TIME RECEIVED BY: <i>3/13/01</i>		TIME ISSUED BY: <i>3/13/01</i>	TIME RECEIVED BY: <i>3/13/01</i>	
SIGNATURE: <i>John</i>	PRINTED NAME/COMPANY: <i>STC CA</i>		TIME ISSUED BY: <i>3/13/01</i>	TIME RECEIVED BY: <i>3/13/01</i>		TIME ISSUED BY: <i>3/13/01</i>	TIME RECEIVED BY: <i>3/13/01</i>	
RUSH TURNAROUND MAY REQUIRE SURCHARGE								

000002

\* RUSH TURNAROUND MAY REQUIRE SURCHARGE

BOE-C6-0211569

**CHAIN OF CUSTODY RECORD****SEVERN TRENT LABORATORIES**1721 South Grand Avenue  
Santa Ana, CA 92705

Phone: (714) 258-8610 / Fax: (714) 258-0921



# EXECUTIVE SUMMARY - Detection Highlights

E1C140162

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>SOURCE_H_031301_1 03/13/01 09:10 001</b>				
C20-C23	6.1 J	10	mg/kg	SW846 8015B
C24-C27	11	10	mg/kg	SW846 8015B
C28-C31	14	10	mg/kg	SW846 8015B
C32-C35	14	10	mg/kg	SW846 8015B
C36-C39	13	10	mg/kg	SW846 8015B
C40+	20	10	mg/kg	SW846 8015B
Total Carbon Chain Range	85	10	mg/kg	SW846 8015B
Aluminum	26300	20.0	mg/kg	SW846 6010B
Arsenic	3.3	1.0	mg/kg	SW846 6010B
Barium	199	2.0	mg/kg	SW846 6010B
Beryllium	0.65	0.50	mg/kg	SW846 6010B
Cobalt	10.2	5.0	mg/kg	SW846 6010B
Chromium	25.7	1.0	mg/kg	SW846 6010B
Copper	63.8	2.5	mg/kg	SW846 6010B
Molybdenum	0.78 B	4.0	mg/kg	SW846 6010B
Nickel	19.7	4.0	mg/kg	SW846 6010B
Lead	6.1	0.50	mg/kg	SW846 6010B
Antimony	0.46 B	6.0	mg/kg	SW846 6010B
Thallium	1.6	1.0	mg/kg	SW846 6010B
Vanadium	48.4	5.0	mg/kg	SW846 6010B
Zinc	62.9	2.0	mg/kg	SW846 6010B
<b>SOURCE_H_031301_2 03/13/01 09:20 002</b>				
C28-C31	6.9 J	10	mg/kg	SW846 8015B
C32-C35	12	10	mg/kg	SW846 8015B
C36-C39	5.2 J	10	mg/kg	SW846 8015B
C40+	7.4 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	46	10	mg/kg	SW846 8015B
Mercury	0.026 B	0.10	mg/kg	SW846 7471A
Aluminum	25600	20.0	mg/kg	SW846 6010B
Arsenic	16.3	1.0	mg/kg	SW846 6010B
Barium	144	2.0	mg/kg	SW846 6010B
Beryllium	0.77	0.50	mg/kg	SW846 6010B
Cadmium	0.94	0.50	mg/kg	SW846 6010B
Cobalt	11.8	5.0	mg/kg	SW846 6010B
Chromium	46.7	1.0	mg/kg	SW846 6010B
Copper	72.9	2.5	mg/kg	SW846 6010B
Molybdenum	2.8 B	4.0	mg/kg	SW846 6010B
Nickel	32.7	4.0	mg/kg	SW846 6010B
Lead	11.2	0.50	mg/kg	SW846 6010B
Antimony	0.92 B	6.0	mg/kg	SW846 6010B
Thallium	2.2	1.0	mg/kg	SW846 6010B

(Continued on next page)

**000004**

# EXECUTIVE SUMMARY - Detection Highlights

E1C140162

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
<b>SOURCE_H_031301_2 03/13/01 09:20 002</b>				
Vanadium	84.2	5.0	mg/kg	SW846 6010B
Zinc	117	2.0	mg/kg	SW846 6010B
<b>SOURCE_K_031301_1 03/13/01 12:55 003</b>				
C16-C17	10	10	mg/kg	SW846 8015B
C18-C19	17	10	mg/kg	SW846 8015B
C20-C23	27	10	mg/kg	SW846 8015B
C24-C27	33	10	mg/kg	SW846 8015B
C28-C31	42	10	mg/kg	SW846 8015B
C32-C35	41	10	mg/kg	SW846 8015B
C40+	34	10	mg/kg	SW846 8015B
Total Carbon Chain Range	210	10	mg/kg	SW846 8015B
Mercury	0.091 B	0.10	mg/kg	SW846 7471A
Aluminum	18700	20.0	mg/kg	SW846 6010B
Arsenic	3.9	1.0	mg/kg	SW846 6010B
Barium	161	2.0	mg/kg	SW846 6010B
Beryllium	0.50	0.50	mg/kg	SW846 6010B
Cobalt	8.5	5.0	mg/kg	SW846 6010B
Chromium	23.0	1.0	mg/kg	SW846 6010B
Copper	74.9	2.5	mg/kg	SW846 6010B
Molybdenum	3.8 B	4.0	mg/kg	SW846 6010B
Nickel	15.6	4.0	mg/kg	SW846 6010B
Lead	17.8	0.50	mg/kg	SW846 6010B
Selenium	0.40 B	0.50	mg/kg	SW846 6010B
Thallium	1.6	1.0	mg/kg	SW846 6010B
Vanadium	53.1	5.0	mg/kg	SW846 6010B
Zinc	97.4	2.0	mg/kg	SW846 6010B
<b>SOURCE_K_031301_2 03/13/01 13:00 004</b>				
C16-C17	5.8 J	10	mg/kg	SW846 8015B
C18-C19	10	10	mg/kg	SW846 8015B
C20-C23	18	10	mg/kg	SW846 8015B
C24-C27	26	10	mg/kg	SW846 8015B
C28-C31	30	10	mg/kg	SW846 8015B
C32-C35	23	10	mg/kg	SW846 8015B
C36-C39	35	10	mg/kg	SW846 8015B
Total Carbon Chain Range	150	10	mg/kg	SW846 8015B
Mercury	0.080 B	0.10	mg/kg	SW846 7471A
Aluminum	18400	20.0	mg/kg	SW846 6010B
Arsenic	3.9	1.0	mg/kg	SW846 6010B
Barium	163	2.0	mg/kg	SW846 6010B

(Continued on next page)

**000005**

# EXECUTIVE SUMMARY - Detection Highlights

E1C140162

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
<b>SOURCE_K_031301_2 03/13/01 13:00 004</b>				
Beryllium	0.51	0.50	mg/kg	SW846 6010B
Cobalt	8.6	5.0	mg/kg	SW846 6010B
Chromium	23.8	1.0	mg/kg	SW846 6010B
Copper	38.5	2.5	mg/kg	SW846 6010B
Molybdenum	2.6 B	4.0	mg/kg	SW846 6010B
Nickel	15.9	4.0	mg/kg	SW846 6010B
Lead	16.4	0.50	mg/kg	SW846 6010B
Thallium	1.7	1.0	mg/kg	SW846 6010B
Vanadium	50.4	5.0	mg/kg	SW846 6010B
Zinc	79.7	2.0	mg/kg	SW846 6010B
<b>SOURCE_K_031301_3 03/13/01 13:05 005</b>				
C16-C17	6.9 J	10	mg/kg	SW846 8015B
C18-C19	12	10	mg/kg	SW846 8015B
C20-C23	20	10	mg/kg	SW846 8015B
C24-C27	35	10	mg/kg	SW846 8015B
C28-C31	40	10	mg/kg	SW846 8015B
C32-C35	33	10	mg/kg	SW846 8015B
C36-C39	37	10	mg/kg	SW846 8015B
C40+	5.9 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	190	10	mg/kg	SW846 8015B
Mercury	0.27	0.10	mg/kg	SW846 7471A
Aluminum	17800	20.0	mg/kg	SW846 6010B
Arsenic	4.9	1.0	mg/kg	SW846 6010B
Barium	285	2.0	mg/kg	SW846 6010B
Beryllium	0.50	0.50	mg/kg	SW846 6010B
Cadmium	1.1	0.50	mg/kg	SW846 6010B
Cobalt	8.4	5.0	mg/kg	SW846 6010B
Chromium	36.1	1.0	mg/kg	SW846 6010B
Copper	47.8	2.5	mg/kg	SW846 6010B
Molybdenum	2.9 B	4.0	mg/kg	SW846 6010B
Nickel	26.2	4.0	mg/kg	SW846 6010B
Lead	12.6	0.50	mg/kg	SW846 6010B
Antimony	0.21 B	6.0	mg/kg	SW846 6010B
Thallium	1.2	1.0	mg/kg	SW846 6010B
Vanadium	69.4	5.0	mg/kg	SW846 6010B
Zinc	85.3	2.0	mg/kg	SW846 6010B

(Continued on next page)

**000006**

# EXECUTIVE SUMMARY - Detection Highlights

**E1C140162**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>SOURCE_K_031301_4 03/13/01 13:10 006</b>				
C14-C15	11 J	20	mg/kg	SW846 8015B
C16-C17	38	20	mg/kg	SW846 8015B
C18-C19	70	20	mg/kg	SW846 8015B
C20-C23	130	20	mg/kg	SW846 8015B
C24-C27	170	20	mg/kg	SW846 8015B
C28-C31	120	20	mg/kg	SW846 8015B
C32-C35	210	20	mg/kg	SW846 8015B
C36-C39	100	20	mg/kg	SW846 8015B
C40+	180	20	mg/kg	SW846 8015B
Total Carbon Chain Range	1000	20	mg/kg	SW846 8015B
Mercury	0.18	0.10	mg/kg	SW846 7471A
Aluminum	10700	20.0	mg/kg	SW846 6010B
Arsenic	6.1	1.0	mg/kg	SW846 6010B
Barium	91.8	2.0	mg/kg	SW846 6010B
Beryllium	0.35 B	0.50	mg/kg	SW846 6010B
Cobalt	5.4	5.0	mg/kg	SW846 6010B
Chromium	15.8	1.0	mg/kg	SW846 6010B
Copper	27.9	2.5	mg/kg	SW846 6010B
Molybdenum	1.4 B	4.0	mg/kg	SW846 6010B
Nickel	10.6	4.0	mg/kg	SW846 6010B
Lead	19.3	0.50	mg/kg	SW846 6010B
Thallium	0.71 B	1.0	mg/kg	SW846 6010B
Vanadium	34.5	5.0	mg/kg	SW846 6010B
Zinc	68.5	2.0	mg/kg	SW846 6010B
<b>SOURCE_K_031301_5 03/13/01 13:15 007</b>				
C16-C17	8.6 J	10	mg/kg	SW846 8015B
C18-C19	19	10	mg/kg	SW846 8015B
C20-C23	32	10	mg/kg	SW846 8015B
C24-C27	52	10	mg/kg	SW846 8015B
C28-C31	69	10	mg/kg	SW846 8015B
C32-C35	66	10	mg/kg	SW846 8015B
C36-C39	59	10	mg/kg	SW846 8015B
C40+	72	10	mg/kg	SW846 8015B
Total Carbon Chain Range	390	10	mg/kg	SW846 8015B
Mercury	0.061 B	0.10	mg/kg	SW846 7471A
Aluminum	17000	20.0	mg/kg	SW846 6010B
Arsenic	4.7	1.0	mg/kg	SW846 6010B
Barium	273	2.0	mg/kg	SW846 6010B
Beryllium	0.51	0.50	mg/kg	SW846 6010B
Cadmium	1.2	0.50	mg/kg	SW846 6010B
Cobalt	8.8	5.0	mg/kg	SW846 6010B

(Continued on next page)

**000007**

## EXECUTIVE SUMMARY - Detection Highlights

E1C140162

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>SOURCE_K_031301_5 03/13/01 13:15 007</b>				
Chromium	39.8	1.0	mg/kg	SW846 6010B
Copper	39.8	2.5	mg/kg	SW846 6010B
Molybdenum	4.5	4.0	mg/kg	SW846 6010B
Nickel	27.8	4.0	mg/kg	SW846 6010B
Lead	12.4	0.50	mg/kg	SW846 6010B
Antimony	0.30 B	6.0	mg/kg	SW846 6010B
Thallium	1.3	1.0	mg/kg	SW846 6010B
Vanadium	72.7	5.0	mg/kg	SW846 6010B
Zinc	82.2	2.0	mg/kg	SW846 6010B
<b>SOURCE_K_031301_6 03/13/01 13:20 008</b>				
C14-C15	7.5 J	10	mg/kg	SW846 8015B
C16-C17	30	10	mg/kg	SW846 8015B
C18-C19	67	10	mg/kg	SW846 8015B
C20-C23	130	10	mg/kg	SW846 8015B
C24-C27	170	10	mg/kg	SW846 8015B
C28-C31	180	10	mg/kg	SW846 8015B
C32-C35	120	10	mg/kg	SW846 8015B
C36-C39	69	10	mg/kg	SW846 8015B
C40+	84	10	mg/kg	SW846 8015B
Total Carbon Chain Range	860	10	mg/kg	SW846 8015B
Mercury	0.13	0.10	mg/kg	SW846 7471A
Aluminum	21800	20.0	mg/kg	SW846 6010B
Arsenic	7.6	1.0	mg/kg	SW846 6010B
Barium	164	2.0	mg/kg	SW846 6010B
Beryllium	0.66	0.50	mg/kg	SW846 6010B
Cadmium	0.35 B	0.50	mg/kg	SW846 6010B
Cobalt	11.0	5.0	mg/kg	SW846 6010B
Chromium	35.9	1.0	mg/kg	SW846 6010B
Copper	49.9	2.5	mg/kg	SW846 6010B
Molybdenum	2.2 B	4.0	mg/kg	SW846 6010B
Nickel	28.2	4.0	mg/kg	SW846 6010B
Lead	23.2	0.50	mg/kg	SW846 6010B
Antimony	0.76 B	6.0	mg/kg	SW846 6010B
Thallium	1.5	1.0	mg/kg	SW846 6010B
Vanadium	65.9	5.0	mg/kg	SW846 6010B
Zinc	115	2.0	mg/kg	SW846 6010B

(Continued on next page)

**000008**

## EXECUTIVE SUMMARY - Detection Highlights

E1C140162

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
<b>SOURCE_K_031301_7 03/13/01 13:25 009</b>				
C12-C13	8.4 J	10	mg/kg	SW846 8015B
C14-C15	22	10	mg/kg	SW846 8015B
C16-C17	65	10	mg/kg	SW846 8015B
C18-C19	120	10	mg/kg	SW846 8015B
C20-C23	210	10	mg/kg	SW846 8015B
C24-C27	280	10	mg/kg	SW846 8015B
C28-C31	300	10	mg/kg	SW846 8015B
C32-C35	200	10	mg/kg	SW846 8015B
C36-C39	130	10	mg/kg	SW846 8015B
C40+	110	10	mg/kg	SW846 8015B
Total Carbon Chain Range	1500	10	mg/kg	SW846 8015B
Mercury	0.26	0.10	mg/kg	SW846 7471A
Aluminum	17800	20.0	mg/kg	SW846 6010B
Arsenic	4.7	1.0	mg/kg	SW846 6010B
Barium	139	2.0	mg/kg	SW846 6010B
Beryllium	0.57	0.50	mg/kg	SW846 6010B
Cadmium	0.20 B	0.50	mg/kg	SW846 6010B
Cobalt	9.3	5.0	mg/kg	SW846 6010B
Chromium	30.7	1.0	mg/kg	SW846 6010B
Copper	31.6	2.5	mg/kg	SW846 6010B
Molybdenum	2.4 B	4.0	mg/kg	SW846 6010B
Nickel	20.6	4.0	mg/kg	SW846 6010B
Lead	20.4	0.50	mg/kg	SW846 6010B
Thallium	1.1	1.0	mg/kg	SW846 6010B
Vanadium	49.4	5.0	mg/kg	SW846 6010B
Zinc	88.3	2.0	mg/kg	SW846 6010B
<b>SOURCE_K_031301_8 03/13/01 13:30 010</b>				
C14-C15	7.8 J	10	mg/kg	SW846 8015B
C16-C17	22	10	mg/kg	SW846 8015B
C18-C19	37	10	mg/kg	SW846 8015B
C20-C23	65	10	mg/kg	SW846 8015B
C24-C27	80	10	mg/kg	SW846 8015B
C28-C31	100	10	mg/kg	SW846 8015B
C32-C35	79	10	mg/kg	SW846 8015B
C36-C39	56	10	mg/kg	SW846 8015B
C40+	85	10	mg/kg	SW846 8015B
Total Carbon Chain Range	530	10	mg/kg	SW846 8015B
Mercury	0.34	0.10	mg/kg	SW846 7471A
Aluminum	15100	20.0	mg/kg	SW846 6010B
Arsenic	5.7	1.0	mg/kg	SW846 6010B
Barium	127	2.0	mg/kg	SW846 6010B

(Continued on next page)

**000009**

# **EXECUTIVE SUMMARY - Detection Highlights**

**E1C140162**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>SOURCE_K_031301_8 03/13/01 13:30 010</b>				
Beryllium	0.43 B	0.50	mg/kg	SW846 6010B
Cadmium	0.24 B	0.50	mg/kg	SW846 6010B
Cobalt	7.8	5.0	mg/kg	SW846 6010B
Chromium	46.8	1.0	mg/kg	SW846 6010B
Copper	41.8	2.5	mg/kg	SW846 6010B
Molybdenum	1.6 B	4.0	mg/kg	SW846 6010B
Nickel	20.4	4.0	mg/kg	SW846 6010B
Lead	49.8	0.50	mg/kg	SW846 6010B
Thallium	0.96 B	1.0	mg/kg	SW846 6010B
Vanadium	49.2	5.0	mg/kg	SW846 6010B
Zinc	100	2.0	mg/kg	SW846 6010B

**000010**

**BOE-C6-0211577**

## METHODS SUMMARY

E1C140162

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Extractable Petroleum Hydrocarbons	SW846 8015B	SANA AUTO-SHAKE
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

000011

# SAMPLE SUMMARY

E1C140162

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
DXC4N	001	SOURCE_H_031301_1	03/13/01	09:10
DXC48	002	SOURCE_H_031301_2	03/13/01	09:20
DXC5D	003	SOURCE_K_031301_1	03/13/01	12:55
DXC5F	004	SOURCE_K_031301_2	03/13/01	13:00
DXC5Q	005	SOURCE_K_031301_3	03/13/01	13:05
DXC5T	006	SOURCE_K_031301_4	03/13/01	13:10
DXC5V	007	SOURCE_K_031301_5	03/13/01	13:15
DXC5X	008	SOURCE_K_031301_6	03/13/01	13:20
DXC54	009	SOURCE_K_031301_7	03/13/01	13:25
DXC57	010	SOURCE_K_031301_8	03/13/01	13:30

## NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

000012

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_H\_031301\_1

## GC Semivolatiles

Lot-Sample #....: E1C140162-001    Work Order #....: DXC4N1AC    Matrix.....: SOLID  
 Date Sampled...: 03/13/01 09:10    Date Received...: 03/14/01 09:42    MS Run #....: 1073178  
 Prep Date.....: 03/14/01    Analysis Date...: 03/15/01  
 Prep Batch #....: 1073232    Analysis Time...: 20:35  
 Dilution Factor: 1  
 Analyst ID.....: 356074    Instrument ID...: G03  
 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	ND	10	mg/kg	5.0
C18-C19	ND	10	mg/kg	5.0
C20-C23	6.1 J	10	mg/kg	5.0
C24-C27	11	10	mg/kg	5.0
C28-C31	14	10	mg/kg	5.0
C32-C35	14	10	mg/kg	5.0
C36-C39	13	10	mg/kg	5.0
C40+	20	10	mg/kg	5.0
Total Carbon Chain Range	85	10	mg/kg	5.0
<u>SURROGATE</u>		PERCENT	RECOVERY	
Benzo(a)pyrene		RECOVERY	LIMITS	
		95	(60 - 130)	

NOTE(S) :

J Estimated result. Result is less than RL.

000013

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_H\_031301\_1

GC Volatiles

Lot-Sample #....: E1C140162-001 Work Order #....: DXC4N1AD Matrix.....: SOLID  
Date Sampled...: 03/13/01 09:10 Date Received...: 03/14/01 09:42 MS Run #.....: 1075188  
Prep Date.....: 03/14/01 Analysis Date...: 03/14/01  
Prep Batch #....: 1075362 Analysis Time...: 12:55  
Dilution Factor: 1  
Analyst ID.....: 001464 Instrument ID...: G16  
Method.....: SW846 8015B

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10
<hr/>				
SURROGATE	PERCENT	RECOVERY	LIMITS	
a,a,a-Trifluorotoluene (TFT)	RECOVERY	(60 - 130)		
	79			

**000014**

BOE-C6-0211581

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_H\_031301\_1

## GC/MS Volatiles

Lot-Sample #....: E1C140162-001    Work Order #....: DXC4N1AA    Matrix.....: SOLID  
 Date Sampled...: 03/13/01 09:10    Date Received...: 03/14/01 09:42    MS Run #.....: 1074203  
 Prep Date.....: 03/14/01    Analysis Date...: 03/14/01  
 Prep Batch #....: 1074359    Analysis Time...: 22:28  
 Dilution Factor: 1  
 Analyst ID.....: 015590    Instrument ID...: MSG  
 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	50	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0

(Continued on next page)

000015

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_H\_031301\_1

## GC/MS Volatiles

Lot-Sample #....: E1C140162-001 Work Order #....: DXC4N1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloropropane	ND	10	ug/kg	3.0
1,2,4-Trichlorobenzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
SURROGATE	RECOVERY	RECOVERY		
		LIMITS		
Bromofluorobenzene	102	(70 - 130)		
1,2-Dichloroethane-d4	107	(60 - 140)		
Toluene-d8	108	(70 - 130)		

000016

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_H\_031301\_2

## GC Semivolatiles

Lot-Sample #....: E1C140162-002    Work Order #....: DXC481AE    Matrix.....: SOLID  
 Date Sampled....: 03/13/01 09:20    Date Received...: 03/14/01 09:42 MS Run #.....: 1073178  
 Prep Date.....: 03/14/01              Analysis Date...: 03/15/01  
 Prep Batch #....: 1073232              Analysis Time...: 21:14  
 Dilution Factor: 1.  
 Analyst ID.....: 356074              Instrument ID...: G03  
 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	ND	10	mg/kg	5.0
C18-C19	ND	10	mg/kg	5.0
C20-C23	ND	10	mg/kg	5.0
C24-C27	ND	10	mg/kg	5.0
C28-C31	6.9 J	10	mg/kg	5.0
C32-C35	12	10	mg/kg	5.0
C36-C39	5.2 J	10	mg/kg	5.0
C40+	7.4 J	10	mg/kg	5.0
Total Carbon Chain Range	46	10	mg/kg	5.0
<u>SURROGATE</u>		PERCENT	RECOVERY	
Benzo(a)pyrene		RECOVERY	LIMITS	
		84	(60 - 130)	

NOTE(S) :

J Estimated result. Result is less than RL.

000017

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_H\_031301\_2

## GC Volatiles

Lot-Sample #....: E1C140162-002 Work Order #....: DXC481AF Matrix.....: SOLID  
Date Sampled....: 03/13/01 09:20 Date Received...: 03/14/01 09:42 MS Run #.....: 1075188  
Prep Date.....: 03/14/01 Analysis Date...: 03/14/01  
Prep Batch #....: 1075362 Analysis Time...: 13:24  
Dilution Factor: 1  
Analyst ID.....: 001464 Instrument ID...: G16  
Method.....: SW846 8015B

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10
PERCENT				RECOVERY
SURROGATE	RECOVERY		LIMITS	
a,a,a-Trifluorotoluene (TFT)	80		(60 - 130)	

000018

BOE-C6-0211585

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_H\_031301\_2

## GC/MS Volatiles

Lot-Sample #....: E1C140162-002    Work Order #....: DXC481AD    Matrix.....: SOLID  
 Date Sampled....: 03/13/01 09:20    Date Received...: 03/14/01 09:42 MS Run #.....: 1074203  
 Prep Date.....: 03/14/01    Analysis Date...: 03/14/01  
 Prep Batch #....: 1074359    Analysis Time...: 23:00  
 Dilution Factor: 1  
 Analyst ID.....: 015590    Instrument ID...: MSG  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	50	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromoform	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0

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000019

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_H\_031301\_2

## GC/MS Volatiles

Lot-Sample #....: E1C140162-002 Work Order #....: DXC481AD Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>	
Bromofluorobenzene	103		(70 - 130)	
1,2-Dichloroethane-d4	106		(60 - 140)	
Toluene-d8	108		(70 - 130)	

000020

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_1

## GC Semivolatiles

Lot-Sample #....: E1C140162-003    Work Order #....: DXC5D1AE    Matrix.....: SOLID  
 Date Sampled....: 03/13/01 12:55    Date Received...: 03/14/01 09:42 MS Run #.....: 1073178  
 Prep Date.....: 03/14/01              Analysis Date...: 03/15/01  
 Prep Batch #....: 1073232              Analysis Time...: 21:53  
 Dilution Factor: 1  
 Analyst ID.....: 356074              Instrument ID...: G03  
 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	10	10	mg/kg	5.0
C18-C19	17	10	mg/kg	5.0
C20-C23	27	10	mg/kg	5.0
C24-C27	33	10	mg/kg	5.0
C28-C31	42	10	mg/kg	5.0
C32-C35	41	10	mg/kg	5.0
C36-C39	ND	10	mg/kg	5.0
C40+	34	10	mg/kg	5.0
Total Carbon Chain Range	210	10	mg/kg	5.0
<u>SURROGATE</u>		PERCENT	RECOVERY	
Benzo(a)pyrene		RECOVERY	LIMITS	
		107	(60 - 130)	

000021

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_1

GC Volatiles

Lot-Sample #....: E1C140162-003 Work Order #....: DXC5D1AF Matrix.....: SOLID  
Date Sampled....: 03/13/01 12:55 Date Received...: 03/14/01 09:42 MS Run #.....: 1075188  
Prep Date.....: 03/14/01 Analysis Date...: 03/14/01  
Prep Batch #....: 1075362 Analysis Time...: 13:52  
Dilution Factor: 1  
Analyst ID.....: 001464 Instrument ID...: G16  
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10
SURROGATE	PERCENT	RECOVERY		
a,a,a-Trifluorotoluene (TFT)	RECOVERY	LIMITS		
	83	(60 - 130)		

000022

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_1

## GC/MS Volatiles

Lot-Sample #....: E1C140162-003    Work Order #....: DXC5D1AD    Matrix.....: SOLID  
 Date Sampled....: 03/13/01 12:55    Date Received...: 03/14/01 09:42 MS Run #.....: 1074203  
 Prep Date.....: 03/15/01    Analysis Date...: 03/15/01  
 Prep Batch #....: 1074359    Analysis Time...: 00:39  
 Dilution Factor: 1  
 Analyst ID.....: 015590    Instrument ID...: MSG  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	50	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromoform	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0

(Continued on next page)

000023

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_1

## GC/MS Volatiles

Lot-Sample #....: E1C140162-003 Work Order #....: DXC5D1AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
 SURROGATE		PERCENT	RECOVERY	
		RECOVERY	LIMITS	
Bromofluorobenzene	101		(70 - 130)	
1,2-Dichloroethane-d4	109		(60 - 140)	
Toluene-d8	108		(70 - 130)	

000024

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_2

## GC Semivolatiles

Lot-Sample #....: E1C140162-004    Work Order #....: DXC5F1AE    Matrix.....: SOLID  
 Date Sampled....: 03/13/01 13:00    Date Received...: 03/14/01 09:42 MS Run #....: 1073178  
 Prep Date.....: 03/14/01    Analysis Date...: 03/15/01  
 Prep Batch #....: 1073232    Analysis Time...: 22:32  
 Dilution Factor: 1  
 Analyst ID.....: 356074    Instrument ID...: G03  
 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	5.8 J	10	mg/kg	5.0
C18-C19	10	10	mg/kg	5.0
C20-C23	18	10	mg/kg	5.0
C24-C27	26	10	mg/kg	5.0
C28-C31	30	10	mg/kg	5.0
C32-C35	23	10	mg/kg	5.0
C36-C39	35	10	mg/kg	5.0
C40+	ND	10	mg/kg	5.0
Total Carbon Chain Range	150	10	mg/kg	5.0
<u>SURROGATE</u>		PERCENT	RECOVERY	
Benzo(a)pyrene		RECOVERY	LIMITS	
		75	(60 - 130)	

NOTE (S) :

J Estimated result. Result is less than RL.

000025

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_2

GC Volatiles

Lot-Sample #....: E1C140162-004    Work Order #....: DXC5F1AF    Matrix.....: SOLID  
Date Sampled...: 03/13/01 13:00    Date Received...: 03/14/01 09:42    MS Run #.....: 1075188  
Prep Date.....: 03/14/01    Analysis Date...: 03/14/01  
Prep Batch #....: 1075362    Analysis Time...: 14:21  
Dilution Factor: 1  
Analyst ID.....: 001464    Instrument ID...: G16  
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10
SURROGATE	PERCENT	RECOVERY		
	RECOVERY	LIMITS		
a,a,a-Trifluorotoluene (TFT)	83	(60 - 130)		

000026

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_2

## GC/MS Volatiles

Lot-Sample #....: E1C140162-004    Work Order #....: DXC5F1AD    Matrix.....: SOLID  
 Date Sampled....: 03/13/01 13:00    Date Received...: 03/14/01 09:42 MS Run #.....: 1074284  
 Prep Date.....: 03/15/01    Analysis Date...: 03/15/01  
 Prep Batch #....: 1074540    Analysis Time...: 15:23  
 Dilution Factor: 1  
 Analyst ID.....: 999998    Instrument ID...: MSG  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	50	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0

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000027

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_2

## GC/MS Volatiles

Lot-Sample #....: E1C140162-004 Work Order #....: DXC5F1AD Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Bromofluorobenzene	106	(70 - 130)		
1,2-Dichloroethane-d4	114	(60 - 140)		
Toluene-d8	106	(70 - 130)		

000028

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_3

## GC Semivolatiles

Lot-Sample #....: E1C140162-005    Work Order #....: DXC5Q1AE    Matrix.....: SOLID  
 Date Sampled....: 03/13/01 13:05    Date Received...: 03/14/01 09:42    MS Run #.....: 1073178  
 Prep Date.....: 03/14/01              Analysis Date...: 03/15/01  
 Prep Batch #....: 1073232              Analysis Time...: 23:11  
 Dilution Factor: 1  
 Analyst ID.....: 356074              Instrument ID...: G03  
 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	6.9 J	10	mg/kg	5.0
C18-C19	12	10	mg/kg	5.0
C20-C23	20	10	mg/kg	5.0
C24-C27	35	10	mg/kg	5.0
C28-C31	40	10	mg/kg	5.0
C32-C35	33	10	mg/kg	5.0
C36-C39	37	10	mg/kg	5.0
C40+	5.9 J	10	mg/kg	5.0
Total Carbon Chain Range	190	10	mg/kg	5.0
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
Benzo(a)pyrene		RECOVERY	LIMITS	
		80	(60 - 130)	

NOTE (S) :

J Estimated result. Result is less than RL.

000029

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_3

GC Volatiles

Lot-Sample #....: E1C140162-005 Work Order #....: DXC5Q1AF Matrix.....: SOLID  
Date Sampled....: 03/13/01 13:05 Date Received...: 03/14/01 09:42 MS Run #.....: 1075188  
Prep Date.....: 03/14/01 Analysis Date...: 03/14/01  
Prep Batch #....: 1075362 Analysis Time...: 14:49  
Dilution Factor: 1  
Analyst ID.....: 001464 Instrument ID...: G16  
Method.....: SW846 8015B

PARAMETER	REPORTING		
	RESULT	LIMIT	UNITS
C6-C8	ND	1.0	mg/kg
<hr/>			
SURROGATE	PERCENT	RECOVERY	LIMITS
a,a,a-Trifluorotoluene (TFT)	RECOVERY	(60 - 130)	
	85		

000030

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_3

## GC/MS Volatiles

Lot-Sample #....: E1C140162-005    Work Order #....: DXC5Q1AD    Matrix.....: SOLID  
 Date Sampled....: 03/13/01 13:05    Date Received...: 03/14/01 09:42    MS Run #.....: 1074203  
 Prep Date.....: 03/15/01    Analysis Date...: 03/15/01  
 Prep Batch #....: 1074359    Analysis Time...: 01:45  
 Dilution Factor: 1  
 Analyst ID.....: 015590    Instrument ID...: MSG  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	50	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0

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000031

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_3

## GC/MS Volatiles

Lot-Sample #...: E1C140162-005 Work Order #...: DXC5Q1AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
 <u>SURROGATE</u>		PERCENT	RECOVERY	
		RECOVERY	LIMITS	
Bromofluorobenzene		116	(70 - 130)	
1,2-Dichloroethane-d4		72	(60 - 140)	
Toluene-d8		111	(70 - 130)	

000032

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_4

## GC Semivolatiles

Lot-Sample #....: E1C140162-006    Work Order #....: DXC5T1AE    Matrix.....: SOLID  
 Date Sampled....: 03/13/01 13:10    Date Received...: 03/14/01 09:42 MS Run #.....: 1073178  
 Prep Date.....: 03/14/01    Analysis Date...: 03/15/01  
 Prep Batch #....: 1073232    Analysis Time...: 23:50  
 Dilution Factor: 2  
 Analyst ID.....: 356074    Instrument ID...: G03  
 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C8-C9	ND	20	mg/kg	10
C10-C11	ND	20	mg/kg	10
C12-C13	ND	20	mg/kg	10
C14-C15	11 J	20	mg/kg	10
C16-C17	38	20	mg/kg	10
C18-C19	70	20	mg/kg	10
C20-C23	130	20	mg/kg	10
C24-C27	170	20	mg/kg	10
C28-C31	120	20	mg/kg	10
C32-C35	210	20	mg/kg	10
C36-C39	100	20	mg/kg	10
C40+	180	20	mg/kg	10
Total Carbon Chain Range	1000	20	mg/kg	10
<hr/>		PERCENT	<hr/>	
<hr/>		RECOVERY	<hr/>	
SURROGATE	RECOVERY	LIMITS	<hr/>	
Benzo (a)pyrene	135 *	(60 - 130)	<hr/>	

NOTE (S) :

\* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

000033

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_4

## GC Volatiles

Lot-Sample #....: E1C140162-006 Work Order #....: DXC5T1AF Matrix.....: SOLID  
Date Sampled....: 03/13/01 13:10 Date Received...: 03/14/01 09:42 MS Run #.....: 1075188  
Prep Date.....: 03/14/01 Analysis Date...: 03/14/01  
Prep Batch #....: 1075362 Analysis Time...: 15:18  
Dilution Factor: 1  
Analyst ID.....: 001464 Instrument ID...: G16  
Method.....: SW846 8015B

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10
<u>SURROGATE</u>		RECOVERY		
a,a,a-Trifluorotoluene (TFT)	PERCENT	RECOVERY	LIMITS	(60 - 130)
	85			

000034

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_4

## GC/MS Volatiles

Lot-Sample #....: E1C140162-006    Work Order #....: DXC5T1AD    Matrix.....: SOLID  
 Date Sampled....: 03/13/01 13:10    Date Received...: 03/14/01 09:42    MS Run #.....: 1074203  
 Prep Date.....: 03/15/01    Analysis Date...: 03/15/01  
 Prep Batch #....: 1074359    Analysis Time...: 02:18  
 Dilution Factor: 1  
 Analyst ID.....: 015590    Instrument ID...: MSG  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	50	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0

(Continued on next page)

000035

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_4

## GC/MS Volatiles

Lot-Sample #...: E1C140162-006 Work Order #...: DXC5T1AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
 <u>SURROGATE</u>		PERCENT	RECOVERY	
		RECOVERY	LIMITS	
Bromofluorobenzene		114	(70 - 130)	
1,2-Dichloroethane-d4		106	(60 - 140)	
Toluene-d8		108	(70 - 130)	

000036

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_5

## GC Semivolatiles

Lot-Sample #....: E1C140162-007 Work Order #....: DXC5V1AE Matrix.....: SOLID  
 Date Sampled....: 03/13/01 13:15 Date Received...: 03/14/01 09:42 MS Run #.....: 1073178  
 Prep Date.....: 03/14/01 Analysis Date...: 03/16/01  
 Prep Batch #....: 1073232 Analysis Time...: 01:08  
 Dilution Factor: 1  
 Analyst ID.....: 356074 Instrument ID...: G03  
 Method.....: SW846 8015B

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	ND	10	mg/kg	5.0
C16-C17	8.6 J	10	mg/kg	5.0
C18-C19	19	10	mg/kg	5.0
C20-C23	32	10	mg/kg	5.0
C24-C27	52	10	mg/kg	5.0
C28-C31	69	10	mg/kg	5.0
C32-C35	66	10	mg/kg	5.0
C36-C39	59	10	mg/kg	5.0
C40+	72	10	mg/kg	5.0
Total Carbon Chain Range	390	10	mg/kg	5.0
<hr/>				
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Benzo(a)pyrene	90	(60 - 130)		

## NOTE(S) :

J Estimated result. Result is less than RL.

000037

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_5

GC Volatiles

Lot-Sample #....: E1C140162-007 Work Order #....: DXC5V1AF Matrix.....: SOLID  
Date Sampled....: 03/13/01 13:15 Date Received...: 03/14/01 09:42 MS Run #.....: 1075188  
Prep Date.....: 03/14/01 Analysis Date...: 03/14/01  
Prep Batch #....: 1075362 Analysis Time...: 15:47  
Dilution Factor: 1  
Analyst ID.....: 001464 Instrument ID...: G16  
Method.....: SW846 8015B

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10
SURROGATE		RECOVERY		
a,a,a-Trifluorotoluene (TFT)		PERCENT	RECOVERY	LIMITS
		85	(60 - 130)	

000038

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_5

## GC/MS Volatiles

Lot-Sample #....: E1C140162-007 Work Order #....: DXC5V1AD Matrix.....: SOLID  
 Date Sampled....: 03/13/01 13:15 Date Received...: 03/14/01 09:42 MS Run #.....: 1074203  
 Prep Date.....: 03/15/01 Analysis Date...: 03/15/01  
 Prep Batch #....: 1074359 Analysis Time...: 02:51  
 Dilution Factor: 1  
 Analyst ID.....: 015590 Instrument ID...: MSG  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	50	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0

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## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_5

## GC/MS Volatiles

Lot-Sample #....: E1C140162-007 Work Order #....: DXC5V1AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
 <u>SURROGATE</u>		PERCENT RECOVERY	RECOVERY LIMITS	
Bromofluorobenzene	102	(70 - 130)		
1,2-Dichloroethane-d4	106	(60 - 140)		
Toluene-d8	108	(70 - 130)		

000040

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_6

## GC Semivolatiles

Lot-Sample #....: E1C140162-008 Work Order #....: DXC5X1AE Matrix.....: SOLID  
 Date Sampled....: 03/13/01 13:20 Date Received...: 03/14/01 09:42 MS Run #.....: 1073178  
 Prep Date.....: 03/14/01 Analysis Date...: 03/16/01  
 Prep Batch #....: 1073232 Analysis Time...: 01:47  
 Dilution Factor: 1  
 Analyst ID.....: 356074 Instrument ID...: G03  
 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
C14-C15	7.5 J	10	mg/kg	5.0
C16-C17	30	10	mg/kg	5.0
C18-C19	67	10	mg/kg	5.0
C20-C23	130	10	mg/kg	5.0
C24-C27	170	10	mg/kg	5.0
C28-C31	180	10	mg/kg	5.0
C32-C35	120	10	mg/kg	5.0
C36-C39	69	10	mg/kg	5.0
C40+	84	10	mg/kg	5.0
Total Carbon Chain Range	860	10	mg/kg	5.0
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
Benzo(a)pyrene		RECOVERY	LIMITS	
		124	(60 - 130)	

NOTE (S) :

J Estimated result. Result is less than RL.

000041

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_6

## GC Volatiles

Lot-Sample #....: E1C140162-008 Work Order #....: DXC5X1AF Matrix.....: SOLID  
Date Sampled....: 03/13/01 13:20 Date Received...: 03/14/01 09:42 MS Run #.....: 1075188  
Prep Date.....: 03/14/01 Analysis Date...: 03/14/01  
Prep Batch #....: 1075362 Analysis Time...: 16:15  
Dilution Factor: 1  
Analyst ID.....: 001464 Instrument ID...: G16  
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10
SURROGATE	PERCENT	RECOVERY	LIMITS	
a,a,a-Trifluorotoluene (TFT)	RECOVERY	(60 - 130)		
	83			

000042

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_6

## GC/MS Volatiles

Lot-Sample #....: E1C140162-008    Work Order #....: DXC5X1AD    Matrix.....: SOLID  
 Date Sampled....: 03/13/01 13:20    Date Received...: 03/14/01 09:42 MS Run #.....: 1074203  
 Prep Date.....: 03/15/01    Analysis Date...: 03/15/01  
 Prep Batch #....: 1074359    Analysis Time...: 03:24  
 Dilution Factor: 1  
 Analyst ID.....: 015590    Instrument ID...: MSG  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	50	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0

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## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_6

## GC/MS Volatiles

Lot-Sample #....: E1C140162-008 Work Order #....: DXC5X1AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
SURROGATE		PERCENT RECOVERY	RECOVERY LIMITS	
Bromofluorobenzene	109		(70 - 130)	
1,2-Dichloroethane-d4	104		(60 - 140)	
Toluene-d8	108		(70 - 130)	

000044

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_7

## GC Semivolatiles

Lot-Sample #....: E1C140162-009    Work Order #....: DXC541AE    Matrix.....: SOLID  
 Date Sampled....: 03/13/01 13:25    Date Received...: 03/14/01 09:42 MS Run #.....: 1073178  
 Prep Date.....: 03/14/01    Analysis Date...: 03/16/01  
 Prep Batch #....: 1073232    Analysis Time...: 02:26  
 Dilution Factor: 1  
 Analyst ID.....: 356074    Instrument ID...: G03  
 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	8.4 J	10	mg/kg	5.0
C14-C15	22	10	mg/kg	5.0
C16-C17	65	10	mg/kg	5.0
C18-C19	120	10	mg/kg	5.0
C20-C23	210	10	mg/kg	5.0
C24-C27	280	10	mg/kg	5.0
C28-C31	300	10	mg/kg	5.0
C32-C35	200	10	mg/kg	5.0
C36-C39	130	10	mg/kg	5.0
C40+	110	10	mg/kg	5.0
Total Carbon Chain Range	1500	10	mg/kg	5.0
<hr/>		PERCENT	RECOVERY	
SURROGATE		RECOVERY	LIMITS	
Benzo(a)pyrene	115		(60 - 130)	

## NOTE(S) :

J Estimated result. Result is less than RL.

000045

KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_7

GC Volatiles

Lot-Sample #....: E1C140162-009 Work Order #....: DXC541AF Matrix.....: SOLID  
Date Sampled....: 03/13/01 13:25 Date Received...: 03/14/01 09:42 MS Run #.....: 1075188  
Prep Date.....: 03/14/01 Analysis Date...: 03/14/01  
Prep Batch #....: 1075362 Analysis Time...: 16:44  
Dilution Factor: 1  
Analyst ID.....: 001464 Instrument ID...: G16  
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10
SURROGATE	PERCENT	RECOVERY		
	RECOVERY	LIMITS		
a,a,a-Trifluorotoluene (TFT)	86	(60 - 130)		

000046

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_7

## GC/MS Volatiles

Lot-Sample #....: E1C140162-009    Work Order #....: DXC541AD    Matrix.....: SOLID  
 Date Sampled...: 03/13/01 13:25    Date Received...: 03/14/01 09:42 MS Run #....: 1074203  
 Prep Date.....: 03/15/01    Analysis Date...: 03/15/01  
 Prep Batch #....: 1074359    Analysis Time...: 03:57  
 Dilution Factor: 1  
 Analyst ID.....: 015590

Instrument ID...: MSG  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	50	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0

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## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_7

## GC/MS Volatiles

Lot-Sample #....: E1C140162-009 Work Order #....: DXC541AD Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>	
Bromofluorobenzene	127		(70 - 130)	
1,2-Dichloroethane-d4	104		(60 - 140)	
Toluene-d8	111		(70 - 130)	

000048

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_8

## GC Semivolatiles

Lot-Sample #....: E1C140162-010 Work Order #....: DXC571AE Matrix.....: SOLID  
 Date Sampled....: 03/13/01 13:30 Date Received...: 03/14/01 09:42 MS Run #.....: 1073178  
 Prep Date.....: 03/14/01 Analysis Date...: 03/16/01  
 Prep Batch #....: 1073232 Analysis Time...: 03:05  
 Dilution Factor: 1  
 Analyst ID.....: 356074 Instrument ID...: G03  
 Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	5.0
C10-C11	ND	10	mg/kg	5.0
C12-C13	ND	10	mg/kg	5.0
<b>C14-C15</b>	<b>7.8 J</b>	<b>10</b>	<b>mg/kg</b>	<b>5.0</b>
C16-C17	22	10	mg/kg	5.0
C18-C19	37	10	mg/kg	5.0
C20-C23	65	10	mg/kg	5.0
C24-C27	80	10	mg/kg	5.0
C28-C31	100	10	mg/kg	5.0
C32-C35	79	10	mg/kg	5.0
C36-C39	56	10	mg/kg	5.0
C40+	85	10	mg/kg	5.0
Total Carbon Chain Range	530	10	mg/kg	5.0

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Benzo(a)pyrene	115	(60 - 130)

NOTE(S) :

J Estimated result. Result is less than RL.

000049

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_8

## GC Volatiles

Lot-Sample #....: E1C140162-010 Work Order #....: DXC571AF Matrix.....: SOLID  
Date Sampled....: 03/13/01 13:30 Date Received...: 03/14/01 09:42 MS Run #.....: 1075188  
Prep Date.....: 03/14/01 Analysis Date...: 03/14/01  
Prep Batch #....: 1075362 Analysis Time...: 17:12  
Dilution Factor: 1  
Analyst ID.....: 001464 Instrument ID...: G16  
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.10
SURROGATE	PERCENT	RECOVERY		
	RECOVERY	LIMITS		
a,a,a-Trifluorotoluene (TFT)	86	(60 - 130)		

000050

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_8

## GC/MS Volatiles

Lot-Sample #....: E1C140162-010    Work Order #....: DXC571AD    Matrix.....: SOLID  
 Date Sampled...: 03/13/01 13:30    Date Received...: 03/14/01 09:42 MS Run #....: 1074203  
 Prep Date.....: 03/15/01    Analysis Date...: 03/15/01  
 Prep Batch #....: 1074359    Analysis Time...: 04:30  
 Dilution Factor: 1  
 Analyst ID.....: 015590

Instrument ID...: MSG  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	2.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	5.0
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	2.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	50	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	10
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0

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## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_8

## GC/MS Volatiles

Lot-Sample #....: E1C140162-010 Work Order #....: DXC571AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	5.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
		(70 - 130)		
Bromofluorobenzene	107	(70 - 130)		
1,2-Dichloroethane-d4	105	(60 - 140)		
Toluene-d8	105	(70 - 130)		

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## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_H\_031301\_1

## TOTAL Metals

Lot-Sample #....: E1C140162-001  
 Date Sampled....: 03/13/01 09:10 Date Received...: 03/14/01 09:42 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....:	1073257					
Silver	ND	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC4N1AT
		Dilution Factor: 1		Analysis Time...: 14:57	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Aluminum	26300	20.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC4N1AE
		Dilution Factor: 1		Analysis Time...: 14:57	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	8.0
Arsenic	3.3	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC4N1AG
		Dilution Factor: 1		Analysis Time...: 14:57	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.40
Barium	199	2.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC4N1AH
		Dilution Factor: 1		Analysis Time...: 14:57	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Beryllium	0.65	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC4N1AJ
		Dilution Factor: 1		Analysis Time...: 14:57	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.050
Cadmium	ND	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC4N1AK
		Dilution Factor: 1		Analysis Time...: 14:57	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.050
Cobalt	10.2	5.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC4N1AL
		Dilution Factor: 1		Analysis Time...: 14:57	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Chromium	25.7	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC4N1AX
		Dilution Factor: 1		Analysis Time...: 14:57	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Copper	63.8	2.5	mg/kg	SW846 6010B	03/14-03/15/01	DXC4N1AM
		Dilution Factor: 1		Analysis Time...: 14:57	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.40

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## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_H\_031301\_1

## TOTAL Metals

Lot-Sample #....: E1C140162-001

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Molybdenum	0.78 B	4.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC4N1AP
		Dilution Factor: 1				Analysis Time...: 14:57			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.30
Nickel	19.7	4.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC4N1AQ
		Dilution Factor: 1				Analysis Time...: 14:57			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.30
Lead	6.1	0.50	mg/kg		SW846 6010B			03/14-03/15/01	DXC4N1AN
		Dilution Factor: 1				Analysis Time...: 14:57			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.30
Antimony	0.46 B	6.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC4N1AF
		Dilution Factor: 1				Analysis Time...: 14:57			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.20
Selenium	ND	0.50	mg/kg		SW846 6010B			03/14-03/15/01	DXC4N1AR
		Dilution Factor: 1				Analysis Time...: 14:57			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.40
Thallium	1.6	1.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC4N1AU
		Dilution Factor: 1				Analysis Time...: 14:57			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.50
Vanadium	48.4	5.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC4N1AV
		Dilution Factor: 1				Analysis Time...: 14:57			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.10
Zinc	62.9	2.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC4N1AW
		Dilution Factor: 1				Analysis Time...: 14:57			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 1.0
Prep Batch #....:	1073279								
Mercury	ND	0.10	mg/kg		SW846 7471A			03/14-03/15/01	DXC4N1A0
		Dilution Factor: 1				Analysis Time...: 14:14			Analyst ID.....: 0210884
		Instrument ID...: M04				MS Run #.....: 1073116			MDL.....: 0.020

NOTE(S) :

B Estimated result. Result is less than RL.

000054

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_H\_031301\_2

## TOTAL Metals

Lot-Sample #....: E1C140162-002  
 Date Sampled...: 03/13/01 09:20 Date Received...: 03/14/01 09:42 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
<b>Prep Batch #....: 1073257</b>							
Silver	ND	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC481AV	
		Dilution Factor: 1		Analysis Time...: 15:06	Analyst ID.....: 003119		
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10		
Aluminum	25600	20.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC481AG	
		Dilution Factor: 1		Analysis Time...: 15:06	Analyst ID.....: 0031194		
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 8.0		
Arsenic	16.3	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC481AJ	
		Dilution Factor: 1		Analysis Time...: 15:06	Analyst ID.....: 0031194		
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.40		
Barium	144	2.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC481AK	
		Dilution Factor: 1		Analysis Time...: 15:06	Analyst ID.....: 0031194		
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10		
Beryllium	0.77	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC481AL	
		Dilution Factor: 1		Analysis Time...: 15:06	Analyst ID.....: 0031194		
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.050		
Cadmium	0.94	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC481AM	
		Dilution Factor: 1		Analysis Time...: 15:06	Analyst ID.....: 0031194		
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.050		
Cobalt	11.8	5.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC481AN	
		Dilution Factor: 1		Analysis Time...: 15:06	Analyst ID.....: 0031194		
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10		
Chromium	46.7	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC481A1	
		Dilution Factor: 1		Analysis Time...: 15:06	Analyst ID.....: 0031194		
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10		
Copper	72.9	2.5	mg/kg	SW846 6010B	03/14-03/15/01	DXC481AP	
		Dilution Factor: 1		Analysis Time...: 15:06	Analyst ID.....: 0031194		
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.40		

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000055

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_H\_031301\_2

## TOTAL Metals

Lot-Sample #....: E1C140162-002

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Molybdenum	2.8 B	4.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC481AR
		Dilution Factor: 1			Analysis Time...: 15:06	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.30	
Nickel	32.7	4.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC481AT
		Dilution Factor: 1			Analysis Time...: 15:06	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.30	
Lead	11.2	0.50	mg/kg		SW846 6010B	03/14-03/15/01	DXC481AQ
		Dilution Factor: 1			Analysis Time...: 15:06	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.30	
Antimony	0.92 B	6.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC481AH
		Dilution Factor: 1			Analysis Time...: 15:06	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.20	
Selenium	ND	0.50	mg/kg		SW846 6010B	03/14-03/15/01	DXC481AU
		Dilution Factor: 1			Analysis Time...: 15:06	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.40	
Thallium	2.2	1.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC481AW
		Dilution Factor: 1			Analysis Time...: 15:06	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.50	
Vanadium	84.2	5.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC481AX
		Dilution Factor: 1			Analysis Time...: 15:06	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.10	
Zinc	117	2.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC481A0
		Dilution Factor: 1			Analysis Time...: 15:06	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 1.0	
Prep Batch #....:	1073279						
Mercury	0.026 B	0.10	mg/kg		SW846 7471A	03/14-03/15/01	DXC481AA
		Dilution Factor: 1			Analysis Time...: 14:16	Analyst ID.....: 0210884	
		Instrument ID...: M04			MS Run #.....: 1073116	MDL.....: 0.020	

NOTE(S) :

B Estimated result. Result is less than RL.

000056

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_1

## TOTAL Metals

Lot-Sample #...: E1C140162-003

Date Sampled...: 03/13/01 12:55 Date Received...: 03/14/01 09:42

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1073257						
Silver	ND	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5D1AV
		Dilution Factor: 1		Analysis Time...: 15:14	Analyst ID.....: 003119	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Aluminum	18700	20.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5D1AG
		Dilution Factor: 1		Analysis Time...: 15:14	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 8.0	
Arsenic	3.9	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5D1AJ
		Dilution Factor: 1		Analysis Time...: 15:14	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.40	
Barium	161	2.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5D1AK
		Dilution Factor: 1		Analysis Time...: 15:14	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Beryllium	0.50	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC5D1AL
		Dilution Factor: 1		Analysis Time...: 15:14	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.050	
Cadmium	ND	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC5D1AM
		Dilution Factor: 1		Analysis Time...: 15:14	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.050	
Cobalt	8.5	5.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5D1AN
		Dilution Factor: 1		Analysis Time...: 15:14	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Chromium	23.0	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5D1A1
		Dilution Factor: 1		Analysis Time...: 15:14	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Copper	74.9	2.5	mg/kg	SW846 6010B	03/14-03/15/01	DXC5D1AP
		Dilution Factor: 1		Analysis Time...: 15:14	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.40	

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000057

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_1

## TOTAL Metals

Lot-Sample #....: E1C140162-003

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ORDER #
		LIMIT	UNITS					
Molybdenum	3.8 B	4.0	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5D1AR
		Dilution Factor: 1			Analysis Time...: 15:14	MS Run #.....: 1073114	MDL.....: 0.30	
		Instrument ID...: M01						
Nickel	15.6	4.0	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5D1AT
		Dilution Factor: 1			Analysis Time...: 15:14	MS Run #.....: 1073114	MDL.....: 0.30	
		Instrument ID...: M01						
Lead	17.8	0.50	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5D1AQ
		Dilution Factor: 1			Analysis Time...: 15:14	MS Run #.....: 1073114	MDL.....: 0.30	
		Instrument ID...: M01						
Antimony	ND	6.0	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5D1AH
		Dilution Factor: 1			Analysis Time...: 15:14	MS Run #.....: 1073114	MDL.....: 0.20	
		Instrument ID...: M01						
Selenium	0.40 B	0.50	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5D1AU
		Dilution Factor: 1			Analysis Time...: 15:14	MS Run #.....: 1073114	MDL.....: 0.40	
		Instrument ID...: M01						
Thallium	1.6	1.0	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5D1AW
		Dilution Factor: 1			Analysis Time...: 15:14	MS Run #.....: 1073114	MDL.....: 0.50	
		Instrument ID...: M01						
Vanadium	53.1	5.0	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5D1AX
		Dilution Factor: 1			Analysis Time...: 15:14	MS Run #.....: 1073114	MDL.....: 0.10	
		Instrument ID...: M01						
Zinc	97.4	2.0	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5D1AO
		Dilution Factor: 1			Analysis Time...: 15:14	MS Run #.....: 1073114	MDL.....: 1.0	
		Instrument ID...: M01						
Prep Batch #....:	1073279							
Mercury	0.091 B	0.10	mg/kg		SW846 7471A	03/14-03/15/01	Analyst ID.....: 0210884	DXC5D1AA
		Dilution Factor: 1			Analysis Time...: 14:18	MS Run #.....: 1073116	MDL.....: 0.020	
		Instrument ID...: M04						

NOTE(S) :

B Estimated result. Result is less than RL.

000058

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_2

## TOTAL Metals

Lot-Sample #....: E1C140162-004

Date Sampled...: 03/13/01 13:00 Date Received...: 03/14/01 09:42

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....:	1073257					
Silver	ND	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5F1AV
		Dilution Factor: 1		Analysis Time...: 15:22	Analyst ID.....:	003119
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Aluminum	18400	20.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5F1AG
		Dilution Factor: 1		Analysis Time...: 15:22	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	8.0
Arsenic	3.9	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5F1AJ
		Dilution Factor: 1		Analysis Time...: 15:22	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.40
Barium	163	2.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5F1AK
		Dilution Factor: 1		Analysis Time...: 15:22	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Beryllium	0.51	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC5F1AL
		Dilution Factor: 1		Analysis Time...: 15:22	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.050
Cadmium	ND	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC5F1AM
		Dilution Factor: 1		Analysis Time...: 15:22	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.050
Cobalt	8.6	5.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5F1AN
		Dilution Factor: 1		Analysis Time...: 15:22	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Chromium	23.8	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5F1AI
		Dilution Factor: 1		Analysis Time...: 15:22	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Copper	38.5	2.5	mg/kg	SW846 6010B	03/14-03/15/01	DXC5F1AP
		Dilution Factor: 1		Analysis Time...: 15:22	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.40

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000059

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_2

## TOTAL Metals

Lot-Sample #....: E1C140162-004

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Molybdenum	2.6 B	4.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5F1AR
		Dilution Factor: 1			Analysis Time...: 15:22	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.30	
Nickel	15.9	4.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5F1AT
		Dilution Factor: 1			Analysis Time...: 15:22	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.30	
Lead	16.4	0.50	mg/kg		SW846 6010B	03/14-03/15/01	DXC5F1AQ
		Dilution Factor: 1			Analysis Time...: 15:22	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.30	
Antimony	ND	6.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5F1AH
		Dilution Factor: 1			Analysis Time...: 15:22	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.20	
Selenium	ND	0.50	mg/kg		SW846 6010B	03/14-03/15/01	DXC5F1AU
		Dilution Factor: 1			Analysis Time...: 15:22	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.40	
Thallium	1.7	1.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5F1AW
		Dilution Factor: 1			Analysis Time...: 15:22	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.50	
Vanadium	50.4	5.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5F1AX
		Dilution Factor: 1			Analysis Time...: 15:22	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.10	
Zinc	79.7	2.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5F1AO
		Dilution Factor: 1			Analysis Time...: 15:22	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 1.0	
Prep Batch #....:	1073279						
Mercury	0.080 B	0.10	mg/kg		SW846 7471A	03/14-03/15/01	DXC5F1AA
		Dilution Factor: 1			Analysis Time...: 14:19	Analyst ID.....: 0210884	
		Instrument ID...: M04			MS Run #.....: 1073116	MDL.....: 0.020	

## NOTE(S) :

B Estimated result. Result is less than RL.

000060

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_3

## TOTAL Metals

Lot-Sample #....: E1C140162-005

Date Sampled....: 03/13/01 13:05 Date Received..: 03/14/01 09:42

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....:	1073257					
Silver	ND	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5Q1AV
		Dilution Factor: 1		Analysis Time...: 15:31	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Aluminum	17800	20.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5Q1AG
		Dilution Factor: 1		Analysis Time...: 15:31	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	8.0
Arsenic	4.9	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5Q1AJ
		Dilution Factor: 1		Analysis Time...: 15:31	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.40
Barium	285	2.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5Q1AK
		Dilution Factor: 1		Analysis Time...: 15:31	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Beryllium	0.50	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC5Q1AL
		Dilution Factor: 1		Analysis Time...: 15:31	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.050
Cadmium	1.1	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC5Q1AM
		Dilution Factor: 1		Analysis Time...: 15:31	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.050
Cobalt	8.4	5.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5Q1AN
		Dilution Factor: 1		Analysis Time...: 15:31	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Chromium	36.1	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5Q1A1
		Dilution Factor: 1		Analysis Time...: 15:31	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Copper	47.8	2.5	mg/kg	SW846 6010B	03/14-03/15/01	DXC5Q1AP
		Dilution Factor: 1		Analysis Time...: 15:31	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.40

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000061

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_3

## TOTAL Metals

Lot-Sample #....: E1C140162-005

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Molybdenum	2.9 B	4.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC5Q1AR
		Dilution Factor: 1				Analysis Time...: 15:31			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.30
Nickel	26.2	4.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC5Q1AT
		Dilution Factor: 1				Analysis Time...: 15:31			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.30
Lead	12.6	0.50	mg/kg		SW846 6010B			03/14-03/15/01	DXC5Q1AQ
		Dilution Factor: 1				Analysis Time...: 15:31			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.30
Antimony	0.21 B	6.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC5Q1AH
		Dilution Factor: 1				Analysis Time...: 15:31			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.20
Selenium	ND	0.50	mg/kg		SW846 6010B			03/14-03/15/01	DXC5Q1AU
		Dilution Factor: 1				Analysis Time...: 15:31			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.40
Thallium	1.2	1.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC5Q1AW
		Dilution Factor: 1				Analysis Time...: 15:31			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.50
Vanadium	69.4	5.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC5Q1AX
		Dilution Factor: 1				Analysis Time...: 15:31			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 0.10
Zinc	85.3	2.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC5Q1AO
		Dilution Factor: 1				Analysis Time...: 15:31			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114			MDL.....: 1.0
Prep Batch #....:	1073279								
Mercury	0.27	0.10	mg/kg		SW846 7471A			03/14-03/15/01	DXC5Q1AA
		Dilution Factor: 1				Analysis Time...: 14:21			Analyst ID.....: 0210884
		Instrument ID...: M04				MS Run #.....: 1073116			MDL.....: 0.020

## NOTE(S) :

B Estimated result. Result is less than RL.

000062

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_4

## TOTAL Metals

Lot-Sample #...: E1C140162-006

Matrix.....: SOLID

Date Sampled...: 03/13/01 13:10 Date Received...: 03/14/01 09:42

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>Prep Batch #...: 1073257</b>						
Silver	ND	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5T1AV
		Dilution Factor: 1		Analysis Time...: 15:39	Analyst ID.....: 003119	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Aluminum	10700	20.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5T1AG
		Dilution Factor: 1		Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 8.0	
Arsenic	6.1	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5T1AJ
		Dilution Factor: 1		Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.40	
Barium	91.8	2.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5T1AK
		Dilution Factor: 1		Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Beryllium	0.35 B	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC5T1AL
		Dilution Factor: 1		Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.050	
Cadmium	ND	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC5T1AM
		Dilution Factor: 1		Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.050	
Cobalt	5.4	5.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5T1AN
		Dilution Factor: 1		Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Chromium	15.8	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5T1A1
		Dilution Factor: 1		Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Copper	27.9	2.5	mg/kg	SW846 6010B	03/14-03/15/01	DXC5T1AP
		Dilution Factor: 1		Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.40	

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000063

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_4

## TOTAL Metals

Lot-Sample #....: E1C140162-006

Matrix..... SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Molybdenum	1.4 B	4.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5T1AR
		Dilution Factor: 1			Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.30	
Nickel	10.6	4.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5T1AT
		Dilution Factor: 1			Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.30	
Lead	19.3	0.50	mg/kg		SW846 6010B	03/14-03/15/01	DXC5T1AQ
		Dilution Factor: 1			Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.30	
Antimony	ND	6.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5T1AH
		Dilution Factor: 1			Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.20	
Selenium	ND	0.50	mg/kg		SW846 6010B	03/14-03/15/01	DXC5T1AU
		Dilution Factor: 1			Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.40	
Thallium	0.71 B	1.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5T1AW
		Dilution Factor: 1			Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.50	
Vanadium	34.5	5.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5T1AX
		Dilution Factor: 1			Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 0.10	
Zinc	68.5	2.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5T1A0
		Dilution Factor: 1			Analysis Time...: 15:39	Analyst ID.....: 0031194	
		Instrument ID...: M01			MS Run #.....: 1073114	MDL.....: 1.0	
Prep Batch #....:	1073279						
Mercury	0.18	0.10	mg/kg		SW846 7471A	03/14-03/15/01	DXC5T1AA
		Dilution Factor: 1			Analysis Time...: 14:23	Analyst ID.....: 0210884	
		Instrument ID...: M04			MS Run #.....: 1073116	MDL.....: 0.020	

## NOTE (S) :

B Estimated result. Result is less than RL.

000064

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_5

## TOTAL Metals

Lot-Sample #....: E1C140162-007

Date Sampled....: 03/13/01 13:15 Date Received...: 03/14/01 09:42

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>Prep Batch #....: 1073257</b>						
Silver	ND	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5V1AV
		Dilution Factor: 1		Analysis Time...: 16:02	Analyst ID.....: 003119	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Aluminum	17000	20.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5V1AG
		Dilution Factor: 1		Analysis Time...: 16:02	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 8.0	
Arsenic	4.7	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5V1AJ
		Dilution Factor: 1		Analysis Time...: 16:02	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.40	
Barium	273	2.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5V1AK
		Dilution Factor: 1		Analysis Time...: 16:02	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Beryllium	0.51	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC5V1AL
		Dilution Factor: 1		Analysis Time...: 16:02	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.050	
Cadmium	1.2	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC5V1AM
		Dilution Factor: 1		Analysis Time...: 16:02	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.050	
Cobalt	8.8	5.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5V1AN
		Dilution Factor: 1		Analysis Time...: 16:02	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Chromium	39.8	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5V1A1
		Dilution Factor: 1		Analysis Time...: 16:02	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Copper	39.8	2.5	mg/kg	SW846 6010B	03/14-03/15/01	DXC5V1AP
		Dilution Factor: 1		Analysis Time...: 16:02	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.40	

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000065

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_5

## TOTAL Metals

Lot-Sample #....: E1C140162-007

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Molybdenum	4.5	4.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5V1AR
		Dilution Factor: 1		Analysis Time...: 16:02		Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114		MDL.....: 0.30	
Nickel	27.8	4.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5V1AT
		Dilution Factor: 1		Analysis Time...: 16:02		Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114		MDL.....: 0.30	
Lead	12.4	0.50	mg/kg		SW846 6010B	03/14-03/15/01	DXC5V1AQ
		Dilution Factor: 1		Analysis Time...: 16:02		Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114		MDL.....: 0.30	
Antimony	0.30 B	6.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5V1AH
		Dilution Factor: 1		Analysis Time...: 16:02		Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114		MDL.....: 0.20	
Selenium	ND	0.50	mg/kg		SW846 6010B	03/14-03/15/01	DXC5V1AU
		Dilution Factor: 1		Analysis Time...: 16:02		Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114		MDL.....: 0.40	
Thallium	1.3	1.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5V1AW
		Dilution Factor: 1		Analysis Time...: 16:02		Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114		MDL.....: 0.50	
Vanadium	72.7	5.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5V1AX
		Dilution Factor: 1		Analysis Time...: 16:02		Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114		MDL.....: 0.10	
Zinc	82.2	2.0	mg/kg		SW846 6010B	03/14-03/15/01	DXC5V1A0
		Dilution Factor: 1		Analysis Time...: 16:02		Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114		MDL.....: 1.0	
Prep Batch #....:	1073279						
Mercury	0.061 B	0.10	mg/kg		SW846 7471A	03/14-03/15/01	DXC5V1AA
		Dilution Factor: 1		Analysis Time...: 14:24		Analyst ID.....: 0210884	
		Instrument ID...: M04		MS Run #.....: 1073116		MDL.....: 0.020	

NOTE(S) :

B Estimated result. Result is less than RL.

000066

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_6

## TOTAL Metals

Lot-Sample #....: E1C140162-008

Date Sampled....: 03/13/01 13:20 Date Received...: 03/14/01 09:42

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....:	1073257					
Silver	ND	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5X1AV
		Dilution Factor: 1		Analysis Time...: 16:10	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Aluminum	21800	20.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5X1AG
		Dilution Factor: 1		Analysis Time...: 16:10	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	8.0
Arsenic	7.6	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5X1AJ
		Dilution Factor: 1		Analysis Time...: 16:10	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.40
Barium	164	2.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5X1AK
		Dilution Factor: 1		Analysis Time...: 16:10	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Beryllium	0.66	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC5X1AL
		Dilution Factor: 1		Analysis Time...: 16:10	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.050
Cadmium	0.35 B	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC5X1AM
		Dilution Factor: 1		Analysis Time...: 16:10	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.050
Cobalt	11.0	5.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5X1AN
		Dilution Factor: 1		Analysis Time...: 16:10	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Chromium	35.9	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC5X1A1
		Dilution Factor: 1		Analysis Time...: 16:10	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.10
Copper	49.9	2.5	mg/kg	SW846 6010B	03/14-03/15/01	DXC5X1AP
		Dilution Factor: 1		Analysis Time...: 16:10	Analyst ID.....:	0031194
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....:	0.40

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000067

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_6

## TOTAL Metals

Lot-Sample #....: E1C140162-008

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ORDER #
		LIMIT	UNITS					
Molybdenum	2.2 B	4.0	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5X1AR
		Dilution Factor: 1		Analysis Time...: 16:10		MS Run #.....: 1073114	MDL.....: 0.30	
Nickel	28.2	4.0	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5X1AT
		Dilution Factor: 1		Analysis Time...: 16:10		MS Run #.....: 1073114	MDL.....: 0.30	
Lead	23.2	0.50	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5X1AQ
		Dilution Factor: 1		Analysis Time...: 16:10		MS Run #.....: 1073114	MDL.....: 0.30	
Antimony	0.76 B	6.0	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5X1AH
		Dilution Factor: 1		Analysis Time...: 16:10		MS Run #.....: 1073114	MDL.....: 0.20	
Selenium	ND	0.50	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5X1AU
		Dilution Factor: 1		Analysis Time...: 16:10		MS Run #.....: 1073114	MDL.....: 0.40	
Thallium	1.5	1.0	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5X1AW
		Dilution Factor: 1		Analysis Time...: 16:10		MS Run #.....: 1073114	MDL.....: 0.50	
Vanadium	65.9	5.0	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5X1AX
		Dilution Factor: 1		Analysis Time...: 16:10		MS Run #.....: 1073114	MDL.....: 0.10	
Zinc	115	2.0	mg/kg		SW846 6010B	03/14-03/15/01	Analyst ID.....: 0031194	DXC5X1AO
		Dilution Factor: 1		Analysis Time...: 16:10		MS Run #.....: 1073114	MDL.....: 1.0	
Prep Batch #....: 1073279								
Mercury	0.13	0.10	mg/kg		SW846 7471A	03/14-03/15/01	Analyst ID.....: 0210884	DXC5X1AA
		Dilution Factor: 1		Analysis Time...: 14:26		MS Run #.....: 1073116	MDL.....: 0.020	
NOTE(S) :								

B Estimated result. Result is less than RL.

000068

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_7

## TOTAL Metals

Lot-Sample #...: E1C140162-009

Date Sampled...: 03/13/01 13:25 Date Received...: 03/14/01 09:42

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 1073257						
Silver	ND	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC541AV
		Dilution Factor: 1		Analysis Time...: 16:19	Analyst ID.....: 003119	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Aluminum	17800	20.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC541AG
		Dilution Factor: 1		Analysis Time...: 16:19	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 8.0	
Arsenic	4.7	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC541AJ
		Dilution Factor: 1		Analysis Time...: 16:19	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.40	
Barium	139	2.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC541AK
		Dilution Factor: 1		Analysis Time...: 16:19	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Beryllium	0.57	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC541AL
		Dilution Factor: 1		Analysis Time...: 16:19	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.050	
Cadmium	0.20 B	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC541AM
		Dilution Factor: 1		Analysis Time...: 16:19	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.050	
Cobalt	9.3	5.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC541AN
		Dilution Factor: 1		Analysis Time...: 16:19	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Chromium	30.7	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC541AI
		Dilution Factor: 1		Analysis Time...: 16:19	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Copper	31.6	2.5	mg/kg	SW846 6010B	03/14-03/15/01	DXC541AP
		Dilution Factor: 1		Analysis Time...: 16:19	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.40	

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000069

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_7

## TOTAL Metals

Lot-Sample #....: E1C140162-009

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS	ANALYSIS DATE			
Molybdenum	2.4 B	4.0	mg/kg	SW846 6010B	Analysis Time...: 16:19 MS Run #.....: 1073114	Analyst ID.....: 0031194 MDL.....: 0.30	03/14-03/15/01 DXC541AR
		Dilution Factor: 1 Instrument ID..: M01					
Nickel	20.6	4.0	mg/kg	SW846 6010B	Analysis Time...: 16:19 MS Run #.....: 1073114	Analyst ID.....: 0031194 MDL.....: 0.30	03/14-03/15/01 DXC541AT
		Dilution Factor: 1 Instrument ID..: M01					
Lead	20.4	0.50	mg/kg	SW846 6010B	Analysis Time...: 16:19 MS Run #.....: 1073114	Analyst ID.....: 0031194 MDL.....: 0.30	03/14-03/15/01 DXC541AQ
		Dilution Factor: 1 Instrument ID..: M01					
Antimony	ND	6.0	mg/kg	SW846 6010B	Analysis Time...: 16:19 MS Run #.....: 1073114	Analyst ID.....: 0031194 MDL.....: 0.20	03/14-03/15/01 DXC541AH
		Dilution Factor: 1 Instrument ID..: M01					
Selenium	ND	0.50	mg/kg	SW846 6010B	Analysis Time...: 16:19 MS Run #.....: 1073114	Analyst ID.....: 0031194 MDL.....: 0.40	03/14-03/15/01 DXC541AU
		Dilution Factor: 1 Instrument ID..: M01					
Thallium	1.1	1.0	mg/kg	SW846 6010B	Analysis Time...: 16:19 MS Run #.....: 1073114	Analyst ID.....: 0031194 MDL.....: 0.50	03/14-03/15/01 DXC541AW
		Dilution Factor: 1 Instrument ID..: M01					
Vanadium	49.4	5.0	mg/kg	SW846 6010B	Analysis Time...: 16:19 MS Run #.....: 1073114	Analyst ID.....: 0031194 MDL.....: 0.10	03/14-03/15/01 DXC541AX
		Dilution Factor: 1 Instrument ID..: M01					
Zinc	88.3	2.0	mg/kg	SW846 6010B	Analysis Time...: 16:19 MS Run #.....: 1073114	Analyst ID.....: 0031194 MDL.....: 1.0	03/14-03/15/01 DXC541A0
		Dilution Factor: 1 Instrument ID..: M01					
Prep Batch #....:	1073279						
Mercury	0.26	0.10	mg/kg	SW846 7471A	Analysis Time...: 14:32 MS Run #.....: 1073116	Analyst ID.....: 0210884 MDL.....: 0.020	03/14-03/15/01 DXC541AA
		Dilution Factor: 1 Instrument ID..: M04					

**NOTE(S) :**

B Estimated result. Result is less than RL.

000070

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_8

## TOTAL Metals

Lot-Sample #....: E1C140162-010

Date Sampled....: 03/13/01 13:30 Date Received...: 03/14/01 09:42

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>Prep Batch #....: 1073257</b>						
Silver	ND	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC571AV
		Dilution Factor: 1		Analysis Time...: 16:27	Analyst ID.....: 003119	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Aluminum	15100	20.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC571AG
		Dilution Factor: 1		Analysis Time...: 16:27	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 8.0	
Arsenic	5.7	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC571AJ
		Dilution Factor: 1		Analysis Time...: 16:27	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.40	
Barium	127	2.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC571AK
		Dilution Factor: 1		Analysis Time...: 16:27	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Beryllium	0.43 B	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC571AL
		Dilution Factor: 1		Analysis Time...: 16:27	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.050	
Cadmium	0.24 B	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXC571AM
		Dilution Factor: 1		Analysis Time...: 16:27	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.050	
Cobalt	7.8	5.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC571AN
		Dilution Factor: 1		Analysis Time...: 16:27	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Chromium	46.8	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXC571A1
		Dilution Factor: 1		Analysis Time...: 16:27	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.10	
Copper	41.8	2.5	mg/kg	SW846 6010B	03/14-03/15/01	DXC571AP
		Dilution Factor: 1		Analysis Time...: 16:27	Analyst ID.....: 0031194	
		Instrument ID...: M01		MS Run #.....: 1073114	MDL.....: 0.40	

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000071

## KENNEDY/JENKS CONSULTANTS

Client Sample ID: SOURCE\_K\_031301\_8

## TOTAL Metals

Lot-Sample #....: E1C140162-010

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK	ANALYSIS DATE	ORDER #
		LIMIT	UNITS						
Molybdenum	1.6 B	4.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC571AR
		Dilution Factor: 1				Analysis Time...: 16:27			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114	MDL.....:		0.30
Nickel	20.4	4.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC571AT
		Dilution Factor: 1				Analysis Time...: 16:27			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114	MDL.....:		0.30
Lead	49.8	0.50	mg/kg		SW846 6010B			03/14-03/15/01	DXC571AQ
		Dilution Factor: 1				Analysis Time...: 16:27			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114	MDL.....:		0.30
Antimony	ND	6.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC571AH
		Dilution Factor: 1				Analysis Time...: 16:27			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114	MDL.....:		0.20
Selenium	ND	0.50	mg/kg		SW846 6010B			03/14-03/15/01	DXC571AU
		Dilution Factor: 1				Analysis Time...: 16:27			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114	MDL.....:		0.40
Thallium	0.96 B	1.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC571AW
		Dilution Factor: 1				Analysis Time...: 16:27			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114	MDL.....:		0.50
Vanadium	49.2	5.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC571AX
		Dilution Factor: 1				Analysis Time...: 16:27			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114	MDL.....:		0.10
Zinc	100	2.0	mg/kg		SW846 6010B			03/14-03/15/01	DXC571AO
		Dilution Factor: 1				Analysis Time...: 16:27			Analyst ID.....: 0031194
		Instrument ID...: M01				MS Run #.....: 1073114	MDL.....:		1.0
Prep Batch #....: 1073279									
Mercury	0.34	0.10	mg/kg		SW846 7471A			03/14-03/15/01	DXC571AA
		Dilution Factor: 1				Analysis Time...: 14:33			Analyst ID.....: 0210884
		Instrument ID...: M04				MS Run #.....: 1073116	MDL.....:		0.020

## NOTE (S) :

B Estimated result. Result is less than RL.

000072

# QC DATA ASSOCIATION SUMMARY

E1C140162

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	SW846 8015B		1073232	1073178
	SOLID	SW846 8015B		1075362	1075188
	SOLID	SW846 7471A		1073279	1073116
	SOLID	SW846 8260B		1074359	1074203
	SOLID	SW846 6010B		1073257	1073114
002	SOLID	SW846 8015B		1073232	1073178
	SOLID	SW846 8015B		1075362	1075188
	SOLID	SW846 7471A		1073279	1073116
	SOLID	SW846 8260B		1074359	1074203
	SOLID	SW846 6010B		1073257	1073114
003	SOLID	SW846 8015B		1073232	1073178
	SOLID	SW846 8015B		1075362	1075188
	SOLID	SW846 7471A		1073279	1073116
	SOLID	SW846 8260B		1074359	1074203
	SOLID	SW846 6010B		1073257	1073114
004	SOLID	SW846 8015B		1073232	1073178
	SOLID	SW846 8015B		1075362	1075188
	SOLID	SW846 7471A		1073279	1073116
	SOLID	SW846 8260B		1074540	1074284
	SOLID	SW846 6010B		1073257	1073114
005	SOLID	SW846 8015B		1073232	1073178
	SOLID	SW846 8015B		1075362	1075188
	SOLID	SW846 7471A		1073279	1073116
	SOLID	SW846 8260B		1074359	1074203
	SOLID	SW846 6010B		1073257	1073114
006	SOLID	SW846 8015B		1073232	1073178
	SOLID	SW846 8015B		1075362	1075188
	SOLID	SW846 7471A		1073279	1073116
	SOLID	SW846 8260B		1074359	1074203
	SOLID	SW846 6010B		1073257	1073114
007	SOLID	SW846 8015B		1073232	1073178
	SOLID	SW846 8015B		1075362	1075188
	SOLID	SW846 7471A		1073279	1073116
	SOLID	SW846 8260B		1074359	1074203
	SOLID	SW846 6010B		1073257	1073114

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**000073**

# QC DATA ASSOCIATION SUMMARY

E1C140162

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
008	SOLID	SW846 8015B		1073232	1073178
	SOLID	SW846 8015B		1075362	1075188
	SOLID	SW846 7471A		1073279	1073116
	SOLID	SW846 8260B		1074359	1074203
	SOLID	SW846 6010B		1073257	1073114
009	SOLID	SW846 8015B		1073232	1073178
	SOLID	SW846 8015B		1075362	1075188
	SOLID	SW846 7471A		1073279	1073116
	SOLID	SW846 8260B		1074359	1074203
	SOLID	SW846 6010B		1073257	1073114
010	SOLID	SW846 8015B		1073232	1073178
	SOLID	SW846 8015B		1075362	1075188
	SOLID	SW846 7471A		1073279	1073116
	SOLID	SW846 8260B		1074359	1074203
	SOLID	SW846 6010B		1073257	1073114

000074

**METHOD BLANK REPORT**

**GC Semivolatiles**

**Client Lot #....:** E1C140162  
**MB Lot-Sample #:** E1C140000-232

**Work Order #....:** DXD331AA

**Matrix.....:** SOLID

**Analysis Date...:** 03/15/01  
**Dilution Factor:** 1

**Prep Date.....:** 03/14/01  
**Prep Batch #....:** 1073232

**Analysis Time...:** 19:16  
**Instrument ID...:** G03

**Analyst ID.....:** 356074

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
C8-C9	ND	10	mg/kg	SW846 8015B
C10-C11	ND	10	mg/kg	SW846 8015B
C12-C13	ND	10	mg/kg	SW846 8015B
C14-C15	ND	10	mg/kg	SW846 8015B
C16-C17	ND	10	mg/kg	SW846 8015B
C18-C19	ND	10	mg/kg	SW846 8015B
C20-C23	ND	10	mg/kg	SW846 8015B
C24-C27	ND	10	mg/kg	SW846 8015B
C28-C31	ND	10	mg/kg	SW846 8015B
C32-C35	ND	10	mg/kg	SW846 8015B
C36-C39	ND	10	mg/kg	SW846 8015B
C40+	ND	10	mg/kg	SW846 8015B
Total Carbon Chain Range	ND	10	mg/kg	SW846 8015B

  

<u>SURROGATE</u>	<u>PERCENT</u>	RECOVERY	
		<u>RECOVERY</u>	<u>LIMITS</u>
Benzo (a) pyrene	96	(60 - 130)	

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000075**

**METHOD BLANK REPORT**

**GC/MS Volatiles**

<b>Client Lot #....:</b> E1C140162	<b>Work Order #....:</b> DXF2L1AA	<b>Matrix.....:</b> SOLID
<b>MB Lot-Sample #:</b> E1C150000-359		
<b>Analysis Date...:</b> 03/14/01	<b>Prep Date.....:</b> 03/14/01	<b>Analysis Time...:</b> 21:55
<b>Dilution Factor:</b> 1	<b>Prep Batch #....:</b> 1074359	<b>Instrument ID...:</b> MSG
		<b>Analyst ID.....:</b> 015590

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	50	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B

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**000076**

## METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #...: E1C140162

Work Order #...: DXF2L1AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
Bromofluorobenzene	103	(70 - 130)		
1,2-Dichloroethane-d4	101	(60 - 140)		
Toluene-d8	111	(70 - 130)		

## NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000077

**METHOD BLANK REPORT**

**GC/MS Volatiles**

Client Lot #....: E1C140162      Work Order #....: DXGQP1AA      Matrix.....: SOLID  
MB Lot-Sample #: E1C150000-540      Prep Date.....: 03/15/01      Analysis Time...: 11:55  
Analysis Date...: 03/15/01      Prep Batch #: 1074540      Instrument ID...: MSG  
Dilution Factor: 1      Analyst ID.....: 999998

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	50	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B

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**000078**

**METHOD BLANK REPORT**

**GC/MS Volatiles**

Client Lot #....: E1C140162

Work Order #....: DXGQP1AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
<hr/>		PERCENT	RECOVERY	
<hr/>		RECOVERY	LIMITS	
SURROGATE			(70 - 130)	
Bromofluorobenzene	101		(60 - 140)	
1,2-Dichloroethane-d4	111		(70 - 130)	
Toluene-d8	107			

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000079**

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: E1C140162  
MB Lot-Sample #: E1C160000-362

Analysis Date...: 03/14/01  
Dilution Factor: 1

Work Order #....: DXJC81AA

Matrix.....: SOLID

Prep Date.....: 03/14/01  
Prep Batch #: 1075362

Analysis Time...: 12:25  
Instrument ID...: G16

Analyst ID.....: 001464

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
C6-C8	ND	1.0	mg/kg	SW846 8015B
<hr/>				
SURROGATE	PERCENT	RECOVERY	LIMITS	
a,a,a-Trifluorotoluene (TFT)	RECOVERY		(60 - 130)	
	77			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000080

**METHOD BLANK REPORT****TOTAL Metals**

Client Lot #...: E1C140162

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MB Lot-Sample #: E1C140000-257 Prep Batch #...: 1073257</b>						
Aluminum	ND	20.0	mg/kg	SW846 6010B	03/14-03/15/01	DXDCH1AA
		Dilution Factor: 1				
		Analysis Time...: 14:43		Analyst ID.....: 003119	Instrument ID...: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	03/14-03/15/01	DXDCH1AC
		Dilution Factor: 1				
		Analysis Time...: 14:43		Analyst ID.....: 003119	Instrument ID...: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXDCH1AD
		Dilution Factor: 1				
		Analysis Time...: 14:43		Analyst ID.....: 003119	Instrument ID...: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	03/14-03/15/01	DXDCH1AE
		Dilution Factor: 1				
		Analysis Time...: 14:43		Analyst ID.....: 003119	Instrument ID...: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXDCH1AF
		Dilution Factor: 1				
		Analysis Time...: 14:43		Analyst ID.....: 003119	Instrument ID...: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXDCH1AG
		Dilution Factor: 1				
		Analysis Time...: 14:43		Analyst ID.....: 003119	Instrument ID...: M01	
Chromium	ND	1.0	mg/kg	SW846 6010B	03/14-03/15/01	DXDCH1AU
		Dilution Factor: 1				
		Analysis Time...: 14:43		Analyst ID.....: 003119	Instrument ID...: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	03/14-03/15/01	DXDCH1AH
		Dilution Factor: 1				
		Analysis Time...: 14:43		Analyst ID.....: 003119	Instrument ID...: M01	
Copper	ND	2.5	mg/kg	SW846 6010B	03/14-03/15/01	DXDCH1AJ
		Dilution Factor: 1				
		Analysis Time...: 14:43		Analyst ID.....: 003119	Instrument ID...: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	03/14-03/15/01	DXDCH1AK
		Dilution Factor: 1				
		Analysis Time...: 14:43		Analyst ID.....: 003119	Instrument ID...: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	03/14-03/15/01	DXDCH1AL
		Dilution Factor: 1				
		Analysis Time...: 14:43		Analyst ID.....: 003119	Instrument ID...: M01	

(Continued on next page)

**000081**

**METHOD BLANK REPORT****TOTAL Metals**

Client Lot #....: E1C140162

**Matrix.....: SOLID**

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Nickel	ND	4.0	mg/kg		SW846 6010B	03/14-03/15/01	DXDCH1AM
		Dilution Factor: 1					
		Analysis Time..: 14:43			Analyst ID.....: 003119	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg		SW846 6010B	03/14-03/15/01	DXDCH1AN
		Dilution Factor: 1					
		Analysis Time..: 14:43			Analyst ID.....: 003119	Instrument ID..: M01	
Silver	ND	1.0	mg/kg		SW846 6010B	03/14-03/15/01	DXDCH1AP
		Dilution Factor: 1					
		Analysis Time..: 14:43			Analyst ID.....: 003119	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg		SW846 6010B	03/14-03/15/01	DXDCH1AQ
		Dilution Factor: 1					
		Analysis Time..: 14:43			Analyst ID.....: 003119	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg		SW846 6010B	03/14-03/15/01	DXDCH1AR
		Dilution Factor: 1					
		Analysis Time..: 14:43			Analyst ID.....: 003119	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg		SW846 6010B	03/14-03/15/01	DXDCH1AT
		Dilution Factor: 1					
		Analysis Time..: 14:43			Analyst ID.....: 003119	Instrument ID..: M01	

**MB Lot-Sample #: E1C140000-279 Prep Batch #....: 1073279**

Mercury	ND	0.10	mg/kg	SW846 7471A	03/14-03/15/01	DXDC11AA
		Dilution Factor: 1				
		Analysis Time..: 14:11		Analyst ID.....: 021088	Instrument ID..: M04	

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000082**

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #....: E1C140162      Work Order #....: DXD331AC      Matrix.....: SOLID  
LCS Lot-Sample#: E1C140000-232  
Prep Date.....: 03/14/01      Analysis Date...: 03/15/01  
Prep Batch #....: 1073232      Analysis Time...: 19:56  
Dilution Factor: 1      Instrument ID...: G03  
Analyst ID.....: 356074

PARAMETER	SPIKE <u>AMOUNT</u>	MEASURED <u>AMOUNT</u>	PERCENT <u>UNITS</u> <u>RECOVERY</u>	METHOD
TPH (as Diesel)	250	200	mg/kg 80	SW846 8015B
SURROGATE		PERCENT RECOVERY	RECOVERY LIMITS	
Benzo (a) pyrene		80	(60 - 130)	

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000083

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

**Client Lot #....:** E1C140162      **Work Order #....:** DXF2L1AC      **Matrix.....:** SOLID  
**LCS Lot-Sample#:** E1C150000-359  
**Prep Date.....:** 03/14/01      **Analysis Date...:** 03/14/01  
**Prep Batch #....:** 1074359      **Analysis Time...:** 21:22  
**Dilution Factor:** 1      **Instrument ID...:** MSG  
**Analyst ID.....:** 015590

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
1,1-Dichloroethene	50.0	59.0	ug/kg	118	SW846 8260B
Benzene	50.0	47.6	ug/kg	95	SW846 8260B
Trichloroethene	50.0	52.7	ug/kg	105	SW846 8260B
Toluene	50.0	46.3	ug/kg	93	SW846 8260B
Chlorobenzene	50.0	47.5	ug/kg	95	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	101	(70 - 130)
1,2-Dichloroethane-d4	94	(60 - 140)
Toluene-d8	105	(70 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000084

**LABORATORY CONTROL SAMPLE DATA REPORT**

**GC/MS Volatiles**

<b>Client Lot #....:</b> E1C140162	<b>Work Order #....:</b> DXGQP1AC	<b>Matrix.....:</b> SOLID
<b>LCS Lot-Sample#:</b> E1C150000-540		
<b>Prep Date.....:</b> 03/15/01	<b>Analysis Date...:</b> 03/15/01	
<b>Prep Batch #....:</b> 1074540	<b>Analysis Time...:</b> 11:22	
<b>Dilution Factor:</b> 1	<b>Instrument ID...:</b> MSG	
<b>Analyst ID.....:</b> 999998		

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
1,1-Dichloroethene	50.0	54.4	ug/kg	109	SW846 8260B
Benzene	50.0	41.9	ug/kg	84	SW846 8260B
Trichloroethene	50.0	50.6	ug/kg	101	SW846 8260B
Toluene	50.0	41.8	ug/kg	84	SW846 8260B
Chlorobenzene	50.0	43.1	ug/kg	86	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	94	(70 - 130)
1,2-Dichloroethane-d4	100	(60 - 140)
Toluene-d8	104	(70 - 130)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

**000085**

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC Volatiles

**Client Lot #....:** E1C140162      **Work Order #....:** DXJC81AC      **Matrix.....:** SOLID  
**LCS Lot-Sample#:** E1C160000-362  
**Prep Date.....:** 03/14/01      **Analysis Date...:** 03/14/01  
**Prep Batch #....:** 1075362      **Analysis Time..:** 11:56  
**Dilution Factor:** 1      **Instrument ID...:** G16  
**Analyst ID.....:** 001464

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
<b>TPH (as Gasoline)</b>	<b>5.00</b>	<b>5.17</b>	<b>mg/kg</b>	<b>103</b>	<b>SW846 8015B</b>
<hr/>					
<b>SURROGATE</b>		<u>PERCENT</u> <u>RECOVERY</u>		<u>RECOVERY</u> <u>LIMITS</u>	
a,a,a-Trifluorotoluene (TFT)		106		(60 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000086

**LABORATORY CONTROL SAMPLE DATA REPORT**

**TOTAL Metals**

**Client Lot #....:** E1C140162

**Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>LCS Lot-Sample#:</b> E1C140000-257 <b>Prep Batch #....:</b> 1073257						
Aluminum	200	194	mg/kg	97	SW846 6010B Dilution Factor: 1 Analysis Time...: 14:49	03/14-03/15/01 DXDCH1AV Analyst ID.....: 003119 Instrument ID...: M01
Antimony	50.0	49.2	mg/kg	98	SW846 6010B Dilution Factor: 1 Analysis Time...: 14:49	03/14-03/15/01 DXDCH1AW Analyst ID.....: 003119 Instrument ID...: M01
Arsenic	200	202	mg/kg	101	SW846 6010B Dilution Factor: 1 Analysis Time...: 14:49	03/14-03/15/01 DXDCH1AX Analyst ID.....: 003119 Instrument ID...: M01
Barium	200	209	mg/kg	104	SW846 6010B Dilution Factor: 1 Analysis Time...: 14:49	03/14-03/15/01 DXDCH1A0 Analyst ID.....: 003119 Instrument ID...: M01
Beryllium	5.00	5.46	mg/kg	109	SW846 6010B Dilution Factor: 1 Analysis Time...: 14:49	03/14-03/15/01 DXDCH1A1 Analyst ID.....: 003119 Instrument ID...: M01
Cadmium	5.00	5.38	mg/kg	108	SW846 6010B Dilution Factor: 1 Analysis Time...: 14:49	03/14-03/15/01 DXDCH1A2 Analyst ID.....: 003119 Instrument ID...: M01
Cobalt	50.0	54.7	mg/kg	109	SW846 6010B Dilution Factor: 1 Analysis Time...: 14:49	03/14-03/15/01 DXDCH1A3 Analyst ID.....: 003119 Instrument ID...: M01
Copper	25.0	26.2	mg/kg	105	SW846 6010B Dilution Factor: 1 Analysis Time...: 14:49	03/14-03/15/01 DXDCH1A4 Analyst ID.....: 003119 Instrument ID...: M01
Lead	50.0	51.3	mg/kg	103	SW846 6010B Dilution Factor: 1 Analysis Time...: 14:49	03/14-03/15/01 DXDCH1A5 Analyst ID.....: 003119 Instrument ID...: M01
Molybdenum	100	105	mg/kg	105	SW846 6010B Dilution Factor: 1 Analysis Time...: 14:49	03/14-03/15/01 DXDCH1A6 Analyst ID.....: 003119 Instrument ID...: M01

(Continued on next page)

**000087**

**LABORATORY CONTROL SAMPLE DATA REPORT**

**TOTAL Metals**

Client Lot #....: E1C140162						Matrix.....: SOLID	
PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Nickel	50.0	53.1	mg/kg	106	SW846 6010B	03/14-03/15/01	DXDCH1A7
			Dilution Factor: 1				
			Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01	
Selenium	200	193	mg/kg	96	SW846 6010B	03/14-03/15/01	DXDCH1A8
			Dilution Factor: 1				
			Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01	
Silver	5.00	5.13	mg/kg	103	SW846 6010B	03/14-03/15/01	DXDCH1A9
			Dilution Factor: 1				
			Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01	
Thallium	200	212	mg/kg	106	SW846 6010B	03/14-03/15/01	DXDCH1CA
			Dilution Factor: 1				
			Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01	
Vanadium	50.0	52.9	mg/kg	106	SW846 6010B	03/14-03/15/01	DXDCH1CC
			Dilution Factor: 1				
			Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01	
Zinc	50.0	53.3	mg/kg	107	SW846 6010B	03/14-03/15/01	DXDCH1CD
			Dilution Factor: 1				
			Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01	
Chromium	20.0	21.8	mg/kg	109	SW846 6010B	03/14-03/15/01	DXDCH1CE
			Dilution Factor: 1				
			Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01	
LCS Lot-Sample#:	E1C140000-279 Prep Batch #....: 1073279						
Mercury	0.833	0.813	mg/kg	98	SW846 7471A	03/14-03/15/01	DXDC11AC
			Dilution Factor: 1				
			Analysis Time...: 14:12		Analyst ID.....: 021088	Instrument ID...: M04	

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000088**

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: E1C140162      Work Order #....: DXD331AC      Matrix.....: SOLID  
LCS Lot-Sample#: E1C140000-232  
Prep Date.....: 03/14/01      Analysis Date...: 03/15/01  
Prep Batch #: 1073232      Analysis Time..: 19:56  
Dilution Factor: 1      Instrument ID...: G03  
Analyst ID.....: 356074

PARAMETER	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	METHOD
<b>TPH (as Diesel)</b>	<b>80</b>	(60 - 130)	<b>SW846 8015B</b>
SURROGATE	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	
Benzo (a) pyrene	80	(60 - 130)	

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000089

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

**Client Lot #....:** E1C140162      **Work Order #....:** DXF2L1AC      **Matrix.....:** SOLID  
**LCS Lot-Sample#:** E1C150000-359  
**Prep Date.....:** 03/14/01      **Analysis Date...:** 03/14/01  
**Prep Batch #....:** 1074359      **Analysis Time..:** 21:22  
**Dilution Factor:** 1      **Instrument ID..:** MSG  
**Analyst ID.....:** 015590

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	118	(60 - 150)	SW846 8260B
Benzene	95	(70 - 140)	SW846 8260B
Trichloroethene	105	(70 - 130)	SW846 8260B
Toluene	93	(70 - 130)	SW846 8260B
Chlorobenzene	95	(70 - 130)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	101	(70 - 130)
1,2-Dichloroethane-d4	94	(60 - 140)
Toluene-d8	105	(70 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000090

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

**Client Lot #....:** E1C140162      **Work Order #....:** DXGQP1AC      **Matrix.....:** SOLID  
**LCS Lot-Sample#:** E1C150000-540  
**Prep Date.....:** 03/15/01      **Analysis Date...:** 03/15/01  
**Prep Batch #....:** 1074540      **Analysis Time...:** 11:22  
**Dilution Factor:** 1      **Instrument ID...:** MSG  
**Analyst ID.....:** 999998

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	109	(60 - 150)	SW846 8260B
Benzene	84	(70 - 140)	SW846 8260B
Trichloroethene	101	(70 - 130)	SW846 8260B
Toluene	84	(70 - 130)	SW846 8260B
Chlorobenzene	86	(70 - 130)	SW846 8260B

  

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	94	(70 - 130)
1,2-Dichloroethane-d4	100	(60 - 140)
Toluene-d8	104	(70 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000091

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: E1C140162      Work Order #....: DXJC81AC      Matrix.....: SOLID  
LCS Lot-Sample#: E1C160000-362  
Prep Date.....: 03/14/01      Analysis Date...: 03/14/01  
Prep Batch #....: 1075362      Analysis Time...: 11:56  
Dilution Factor: 1      Instrument ID...: G16  
Analyst ID.....: 001464

PARAMETER	PERCENT	RECOVERY	METHOD
	RECOVERY	LIMITS	
<b>TPH (as Gasoline)</b>	<b>103</b>	(80 - 140)	<b>SW846 8015B</b>
SURROGATE	PERCENT	RECOVERY	LIMITS
a,a,a-Trifluorotoluene (TFT)	106	(60 - 130)	

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000092

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**TOTAL Metals**

<b>Client Lot #....:</b>	E1C140162			<b>Matrix.....:</b>	SOLID
<b>PARAMETER</b>	<b>PERCENT RECOVERY</b>	<b>RECOVERY LIMITS</b>	<b>METHOD</b>	<b>PREPARATION-ANALYSIS DATE</b>	<b>WORK ORDER #</b>
<b>LCS Lot-Sample#:</b>	<b>E1C140000-257 Prep Batch #....:</b> 1073257				
Aluminum	97	(80 - 120)	SW846 6010B	03/14-03/15/01	DXDCH1AV
		Dilution Factor: 1			
		Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01
Antimony	98	(75 - 115)	SW846 6010B	03/14-03/15/01	DXDCH1AW
		Dilution Factor: 1			
		Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01
Arsenic	101	(75 - 115)	SW846 6010B	03/14-03/15/01	DXDCH1AX
		Dilution Factor: 1			
		Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01
Barium	104	(80 - 120)	SW846 6010B	03/14-03/15/01	DXDCH1A0
		Dilution Factor: 1			
		Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01
Beryllium	109	(80 - 120)	SW846 6010B	03/14-03/15/01	DXDCH1A1
		Dilution Factor: 1			
		Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01
Cadmium	108	(80 - 120)	SW846 6010B	03/14-03/15/01	DXDCH1A2
		Dilution Factor: 1			
		Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01
Cobalt	109	(80 - 120)	SW846 6010B	03/14-03/15/01	DXDCH1A3
		Dilution Factor: 1			
		Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01
Copper	105	(80 - 120)	SW846 6010B	03/14-03/15/01	DXDCH1A4
		Dilution Factor: 1			
		Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01
Lead	103	(80 - 120)	SW846 6010B	03/14-03/15/01	DXDCH1A5
		Dilution Factor: 1			
		Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01
Molybdenum	105	(80 - 120)	SW846 6010B	03/14-03/15/01	DXDCH1A6
		Dilution Factor: 1			
		Analysis Time...: 14:49		Analyst ID.....: 003119	Instrument ID...: M01

(Continued on next page)

**000093**

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**TOTAL Metals**

<b>Client Lot #....:</b> E1C140162	<b>Matrix.....:</b> SOLID			
<b>PARAMETER</b>	<b>PERCENT RECOVERY</b>	<b>RECOVERY LIMITS</b>	<b>METHOD</b>	<b>PREPARATION-</b>
Nickel	106	(80 - 120)	SW846 6010B	<b>ANALYSIS DATE</b> 03/14-03/15/01 <b>WORK ORDER #</b> DXDCH1A7
		Dilution Factor: 1		
		Analysis Time...: 14:49	Analyst ID.....: 003119	Instrument ID...: M01
Selenium	96	(70 - 115)	SW846 6010B	03/14-03/15/01 DXDCH1A8
		Dilution Factor: 1		
		Analysis Time...: 14:49	Analyst ID.....: 003119	Instrument ID...: M01
Silver	103	(80 - 120)	SW846 6010B	03/14-03/15/01 DXDCH1A9
		Dilution Factor: 1		
		Analysis Time...: 14:49	Analyst ID.....: 003119	Instrument ID...: M01
Thallium	106	(75 - 120)	SW846 6010B	03/14-03/15/01 DXDCH1CA
		Dilution Factor: 1		
		Analysis Time...: 14:49	Analyst ID.....: 003119	Instrument ID...: M01
Vanadium	106	(80 - 120)	SW846 6010B	03/14-03/15/01 DXDCH1CC
		Dilution Factor: 1		
		Analysis Time...: 14:49	Analyst ID.....: 003119	Instrument ID...: M01
Zinc	107	(80 - 120)	SW846 6010B	03/14-03/15/01 DXDCH1CD
		Dilution Factor: 1		
		Analysis Time...: 14:49	Analyst ID.....: 003119	Instrument ID...: M01
Chromium	109	(85 - 120)	SW846 6010B	03/14-03/15/01 DXDCH1CE
		Dilution Factor: 1		
		Analysis Time...: 14:49	Analyst ID.....: 003119	Instrument ID...: M01
<b>LCS Lot-Sample#:</b> E1C140000-279 <b>Prep Batch #....:</b> 1073279				
Mercury	98	(85 - 115)	SW846 7471A	03/14-03/15/01 DXDC11AC
		Dilution Factor: 1		
		Analysis Time...: 14:12	Analyst ID.....: 021088	Instrument ID...: M04

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000094**

**MATRIX SPIKE SAMPLE DATA REPORT**

**TOTAL Metals**

**Client Lot #....:** E1C140162

**Matrix.....:** SOLID

**Date Sampled....:** 03/13/01 14:50 **Date Received...:** 03/13/01 14:50

<b>PARAMETER</b>	<b>SAMPLE SPIKE MEASURED</b>			<b>PERCNT</b>			<b>PREPARATION-</b>	<b>WORK</b>	<b>ORDER #</b>
	<b>AMOUNT</b>	<b>AMT</b>	<b>AMOUNT</b>	<b>UNITS</b>	<b>RECVRY</b>	<b>RPD</b>			

**MS Lot-Sample #:** E1C130246-001 **Prep Batch #....:** 1073279

**Mercury**

0.029	0.167	0.215	mg/kg	111		SW846 7471A	03/14-03/15/01	DXCCF1AV	
0.029	0.167	0.212	mg/kg	109	1.6	SW846 7471A	03/14-03/15/01	DXCCF1AW	
Dilution Factor: 1									
Analysis Time...: 14:56					Instrument ID...: M04			Analyst ID.....: 021088	
MS Run #.....: 1073116									

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**000095**

## MATRIX SPIKE SAMPLE DATA REPORT

## GC Semivolatiles

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCENT			
	AMOUNT	AMT	AMOUNT	UNITS	RECOVERY	RPD	METHOD
TPH (as Diesel)	49	250	265	mg/kg	86		SW846 8015B
	49	250	228	mg/kg	72	15	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Benzo(a)pyrene	95	(60 - 130)
	82	(60 - 130)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Bold print** denotes control parameters

000096

**MATRIX SPIKE SAMPLE DATA REPORT**

**GC/MS Volatiles**

Client Lot #....: E1C140162	Work Order #....: DXC4N1A2-MS	Matrix.....: SOLID
MS Lot-Sample #: E1C140162-001		DXC4N1A3-MSD
Date Sampled....: 03/13/01 09:10	Date Received...: 03/14/01 09:42	MS Run #.....: 1074203
Prep Date.....: 03/14/01	Analysis Date...: 03/14/01	
Prep Batch #....: 1074359	Analysis Time...: 23:33	
Dilution Factor: 1	Analyst ID.....: 015590	Instrument ID...: MSG

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCENT			METHOD
	AMOUNT	AMT	AMOUNT	UNITS	RECOVERY	RPD	
1,1-Dichloroethene	ND	50.0	54.6	ug/kg	109		SW846 8260B
	ND	50.0	56.2	ug/kg	112	2.9	SW846 8260B
Benzene	ND	50.0	49.8	ug/kg	100		SW846 8260B
	ND	50.0	49.6	ug/kg	99	0.58	SW846 8260B
Trichloroethene	ND	50.0	51.7	ug/kg	103		SW846 8260B
	ND	50.0	51.9	ug/kg	104	0.32	SW846 8260B
Toluene	ND	50.0	44.8	ug/kg	90		SW846 8260B
	ND	50.0	45.3	ug/kg	91	1.2	SW846 8260B
Chlorobenzene	ND	50.0	46.5	ug/kg	93		SW846 8260B
	ND	50.0	46.0	ug/kg	92	1.1	SW846 8260B

SURROGATE	PERCENT		LIMITS
	RECOVERY	RECOVERY	
Bromofluorobenzene	100		(70 - 130)
	98		(70 - 130)
1,2-Dichloroethane-d4	107		(60 - 140)
	105		(60 - 140)
Toluene-d8	105		(70 - 130)
	106		(70 - 130)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

**000097**

**MATRIX SPIKE SAMPLE DATA REPORT**

**GC/MS Volatiles**

Client Lot #....:	E1C140162	Work Order #....:	DXC5F1A3-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E1C140162-004				DXC5F1A4-MSD
Date Sampled....:	03/13/01 13:00	Date Received...:	03/14/01 09:42	MS Run #.....:	1074284
Prep Date.....:	03/15/01	Analysis Date...:	03/15/01		
Prep Batch #....:	1074540	Analysis Time...:	13:44		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSG

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCENT			
	AMOUNT	AMT	AMOUNT	UNITS	RECOVERY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	61.6	ug/kg	123		SW846 8260B
	ND	50.0	79.5	ug/kg	159	25	SW846 8260B
Qualifiers: a, MSC							
Benzene	ND	50.0	47.8	ug/kg	96		SW846 8260B
	ND	50.0	56.4	ug/kg	113	16	SW846 8260B
Trichloroethene	ND	50.0	55.9	ug/kg	112		SW846 8260B
	ND	50.0	63.3	ug/kg	127	12	SW846 8260B
Toluene	ND	50.0	41.0	ug/kg	82		SW846 8260B
	ND	50.0	60.2	ug/kg	120	p 38	SW846 8260B
Chlorobenzene	ND	50.0	42.4	ug/kg	85		SW846 8260B
	ND	50.0	51.7	ug/kg	103	20	SW846 8260B
 <u>SURROGATE</u>							
Bromofluorobenzene				PERCENT	RECOVERY		
				RECOVERY	LIMITS		
				103	(70 - 130)		
1,2-Dichloroethane-d4				128	(70 - 130)		
				114	(60 - 140)		
Toluene-d8				62	(60 - 140)		
				104	(70 - 130)		
				116	(70 - 130)		

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

p Relative percent difference (RPD) is outside stated control limits.

**000098**

## MATRIX SPIKE SAMPLE DATA REPORT

## GC Volatiles

Client Lot #....: E1C140162      Work Order #....: DXC5V1A3-MS      Matrix.....: SOLID  
**MS Lot-Sample #:** E1C140162-007      DXC5V1A4-MSD  
 Date Sampled....: 03/13/01 13:15      Date Received...: 03/14/01 09:42      MS Run #.....: 1075188  
 Prep Date.....: 03/14/01      Analysis Date...: 03/14/01  
 Prep Batch #....: 1075362      Analysis Time...: 22:56  
 Dilution Factor: 1      Analyst ID.....: 001464      Instrument ID...: G16

<u>PARAMETER</u>	SAMPLE	SPIKE	MEASRD	PERCENT			
	AMOUNT	AMT	AMOUNT	UNITS	RECOVERY	RPD	METHOD
TPH (as Gasoline)	ND	5.00	4.25	mg/kg	85		SW846 8015B
	ND	5.00	4.50	mg/kg	90	5.7	SW846 8015B

<u>SURROGATE</u>	PERCENT			RECOVERY
	<u>RECOVERY</u>			<u>LIMITS</u>
a,a,a-Trifluorotoluene (TFT)	107			(60 - 130)
	108			(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000099

**MATRIX SPIKE SAMPLE DATA REPORT**

**TOTAL Metals**

**Client Lot #....:** E1C140162                   **Matrix.....:** SOLID  
**Date Sampled....:** 03/14/01 07:15 **Date Received...:** 03/14/01 09:42

PARAMETER	SAMPLE	SPIKE	MEASURED	UNITS	PERCNT		PREPARATION- ANALYSIS DATE	WORK ORDER #			
	AMOUNT	AMT	AMOUNT		RECVRY	RPD					
<b>MS Lot-Sample #:</b> E1C140176-001 <b>Prep Batch #....:</b> 1073257											
<b>Aluminum</b>											
	32600	200	37900	NC	mg/kg		SW846 6010B	03/14-03/15/01 DXC7G1A1			
	32600	200	30200	NC	mg/kg		SW846 6010B	03/14-03/15/01 DXC7G1A2			
			Dilution Factor:	1							
			Analysis Time...:	17:56		Instrument ID...:	M01	Analyst ID.....: 003119			
			MS Run #.....:	1073114							
<b>Antimony</b>											
	ND	50.0	13.5	N	mg/kg	27	SW846 6010B	03/14-03/15/01 DXC7G1A3			
	ND	50.0	13.5	N	mg/kg	27	0.23 SW846 6010B	03/14-03/15/01 DXC7G1A4			
			Dilution Factor:	1							
			Analysis Time...:	17:56		Instrument ID...:	M01	Analyst ID.....: 003119			
			MS Run #.....:	1073114							
<b>Arsenic</b>											
	4.5	200	188		mg/kg	92	SW846 6010B	03/14-03/15/01 DXC7G1A5			
	4.5	200	170		mg/kg	83	9.9 SW846 6010B	03/14-03/15/01 DXC7G1A6			
			Dilution Factor:	1							
			Analysis Time...:	17:56		Instrument ID...:	M01	Analyst ID.....: 003119			
			MS Run #.....:	1073114							
<b>Barium</b>											
	190	200	395		mg/kg	103	SW846 6010B	03/14-03/15/01 DXC7G1A7			
	190	200	332	N	mg/kg	71	17 SW846 6010B	03/14-03/15/01 DXC7G1A8			
			Dilution Factor:	1							
			Analysis Time...:	17:56		Instrument ID...:	M01	Analyst ID.....: 003119			
			MS Run #.....:	1073114							
<b>Beryllium</b>											
	0.91	5.00	6.14		mg/kg	105	SW846 6010B	03/14-03/15/01 DXC7G1A9			
	0.91	5.00	5.38		mg/kg	89	13 SW846 6010B	03/14-03/15/01 DXC7G1CA			
			Dilution Factor:	1							
			Analysis Time...:	17:56		Instrument ID...:	M01	Analyst ID.....: 003119			
			MS Run #.....:	1073114							
<b>Cadmium</b>											
	ND	5.00	5.08		mg/kg	102	SW846 6010B	03/14-03/15/01 DXC7G1CC			
	ND	5.00	4.52		mg/kg	90	12 SW846 6010B	03/14-03/15/01 DXC7G1CD			
			Dilution Factor:	1							
			Analysis Time...:	17:56		Instrument ID...:	M01	Analyst ID.....: 003119			
			MS Run #.....:	1073114							

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**000100**

**MATRIX SPIKE SAMPLE DATA REPORT**

**TOTAL Metals**

Client Lot #...: E1C140162

Matrix.....: SOLID

Date Sampled...: 03/14/01 07:15 Date Received...: 03/14/01 09:42

PARAMETER	SAMPLE	SPIKE	MEASURED	UNITS	PERCNT		METHOD	PREPARATION-	WORK
	AMOUNT	AMT	AMOUNT		RECVRY	RPD		ANALYSIS DATE	ORDER #
<b>Chromium</b>									
	33.8	20.0	57.9	mg/kg	120		SW846 6010B	03/14-03/15/01	DXC7G1C3
	33.8	20.0	48.2 N	mg/kg	72	18	SW846 6010B	03/14-03/15/01	DXC7G1C4
	Dilution Factor: 1								
	Analysis Time...: 17:56								
	MS Run #.....: 1073114								
<b>Cobalt</b>									
	12.9	50.0	62.9	mg/kg	100		SW846 6010B	03/14-03/15/01	DXC7G1CE
	12.9	50.0	57.1	mg/kg	88	9.7	SW846 6010B	03/14-03/15/01	DXC7G1CF
	Dilution Factor: 1								
	Analysis Time...: 17:56								
	MS Run #.....: 1073114								
<b>Copper</b>									
	26.9	25.0	57.8 N	mg/kg	123		SW846 6010B	03/14-03/15/01	DXC7G1CG
	26.9	25.0	66.1 N	mg/kg	157	13	SW846 6010B	03/14-03/15/01	DXC7G1CH
	Dilution Factor: 1								
	Analysis Time...: 17:56								
	MS Run #.....: 1073114								
<b>Lead</b>									
	5.4	50.0	52.2	mg/kg	94		SW846 6010B	03/14-03/15/01	DXC7G1CJ
	5.4	50.0	47.7	mg/kg	85	8.9	SW846 6010B	03/14-03/15/01	DXC7G1CK
	Dilution Factor: 1								
	Analysis Time...: 17:56								
	MS Run #.....: 1073114								
<b>Molybdenum</b>									
	0.88	100	90.5	mg/kg	90		SW846 6010B	03/14-03/15/01	DXC7G1CL
	0.88	100	81.5	mg/kg	81	10	SW846 6010B	03/14-03/15/01	DXC7G1CM
	Dilution Factor: 1								
	Analysis Time...: 17:56								
	MS Run #.....: 1073114								
<b>Nickel</b>									
	24.4	50.0	74.3	mg/kg	100		SW846 6010B	03/14-03/15/01	DXC7G1CN
	24.4	50.0	63.7 N	mg/kg	79	15	SW846 6010B	03/14-03/15/01	DXC7G1CP
	Dilution Factor: 1								
	Analysis Time...: 17:56								
	MS Run #.....: 1073114								
<b>Selenium</b>									
	ND	200	172	mg/kg	86		SW846 6010B	03/14-03/15/01	DXC7G1CQ
	ND	200	160	mg/kg	80	7.5	SW846 6010B	03/14-03/15/01	DXC7G1CR
	Dilution Factor: 1								
	Analysis Time...: 17:56								
	MS Run #.....: 1073114								

**000101**

(Continued on next page)

**000102**

**MATRIX SPIKE SAMPLE DATA REPORT**

**TOTAL Metals**

**Client Lot #....:** E1C140162

**Matrix.....:** SOLID

**Date Sampled....:** 03/14/01 07:15 **Date Received..:** 03/14/01 09:42

PARAMETER	SAMPLE	SPIKE	MEASURED	UNITS	PERCNT		METHOD	PREPARATION-	WORK
	AMOUNT	AMT	AMOUNT		RECVRY	RPD		ANALYSIS DATE	ORDER #
<b>Silver</b>									
	ND	5.00	4.80	mg/kg	96		SW846 6010B	03/14-03/15/01	DXC7G1CT
	ND	5.00	4.23	mg/kg	85	13	SW846 6010B	03/14-03/15/01	DXC7G1CU
	Dilution Factor: 1								
	Analysis Time...: 17:56								
	MS Run #.....: 1073114								
<b>Thallium</b>									
	1.9	200	196	mg/kg	97		SW846 6010B	03/14-03/15/01	DXC7G1CV
	1.9	200	178	mg/kg	88	9.8	SW846 6010B	03/14-03/15/01	DXC7G1CW
	Dilution Factor: 1								
	Analysis Time...: 17:56								
	MS Run #.....: 1073114								
<b>Vanadium</b>									
	70.4	50.0	128	mg/kg	115		SW846 6010B	03/14-03/15/01	DXC7G1CX
	70.4	50.0	106 N	mg/kg	72	18	SW846 6010B	03/14-03/15/01	DXC7G1C0
	Dilution Factor: 1								
	Analysis Time...: 17:56								
	MS Run #.....: 1073114								
<b>Zinc</b>									
	71.0	50.0	130	mg/kg	119		SW846 6010B	03/14-03/15/01	DXC7G1C1
	71.0	50.0	117	mg/kg	92	11	SW846 6010B	03/14-03/15/01	DXC7G1C2
	Dilution Factor: 1								
	Analysis Time...: 17:56								
	MS Run #.....: 1073114								

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

**000103**

BOE-C6-0211670

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E1C140162

Matrix.....: SOLID

Date Sampled....: 03/13/01 14:50 Date Received...: 03/13/01 14:50

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>MS Lot-Sample #:</b> E1C130246-001 <b>Prep Batch #....:</b> 1073279							
Mercury	111	(80 - 120)		SW846 7471A		03/14-03/15/01 DXCCF1AV	
	109	(80 - 120) 1.6 (0-20)	1.6	SW846 7471A		03/14-03/15/01 DXCCF1AW	
Dilution Factor: 1							
Analysis Time...: 14:56				Instrument ID...: M04		Analyst ID.....: 021088	
MS Run #.....: 1073116							

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000104

BOE-C6-0211671

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC Semivolatiles

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
<b>TPH (as Diesel)</b>	<b>86</b>	<b>(60 - 130)</b>			<b>SW846 8015B</b>
	<b>72</b>	<b>(60 - 130)</b>	<b>15</b>	<b>(0-35)</b>	<b>SW846 8015B</b>

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Benzo (a) pyrene	95	(60 - 130)
	82	(60 - 130)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Bold print** denotes control parameters

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**GC/MS Volatiles**

<b>Client Lot #....:</b> E1C140162	<b>Work Order #....:</b> DXC4N1A2-MS	<b>Matrix.....:</b> SOLID
<b>MS Lot-Sample #:</b> E1C140162-001	<b>DXC4N1A3-MSD</b>	
<b>Date Sampled....:</b> 03/13/01 09:10	<b>Date Received...:</b> 03/14/01 09:42	<b>MS Run #.....:</b> 1074203
<b>Prep Date.....:</b> 03/14/01	<b>Analysis Date...:</b> 03/14/01	
<b>Prep Batch #....:</b> 1074359	<b>Analysis Time...:</b> 23:33	
<b>Dilution Factor:</b> 1	<b>Analyst ID.....:</b> 015590	<b>Instrument ID..:</b> MSG

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	109	(60 - 150)	2.9	(0-30)	SW846 8260B
	112	(60 - 150)			SW846 8260B
Benzene	100	(70 - 140)	0.58	(0-30)	SW846 8260B
	99	(70 - 140)			SW846 8260B
Trichloroethene	103	(70 - 130)	0.32	(0-30)	SW846 8260B
	104	(70 - 130)			SW846 8260B
Toluene	90	(70 - 130)	1.2	(0-30)	SW846 8260B
	91	(70 - 130)			SW846 8260B
Chlorobenzene	93	(70 - 130)	1.1	(0-30)	SW846 8260B
	92	(70 - 130)			SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>LIMITS</u>
Bromofluorobenzene	100	(70 - 130)	
	98	(70 - 130)	
1,2-Dichloroethane-d4	107	(60 - 140)	
	105	(60 - 140)	
Toluene-d8	105	(70 - 130)	
	106	(70 - 130)	

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

**000106**

BOE-C6-0211673

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**GC/MS Volatiles**

<b>Client Lot #....:</b> E1C140162	<b>Work Order #....:</b> DXC5F1A3-MS	<b>Matrix.....:</b> SOLID
<b>MS Lot-Sample #:</b> E1C140162-004		DXC5F1A4-MSD
<b>Date Sampled....:</b> 03/13/01 13:00	<b>Date Received...:</b> 03/14/01 09:42	<b>MS Run #.....:</b> 1074284
<b>Prep Date.....:</b> 03/15/01	<b>Analysis Date...:</b> 03/15/01	
<b>Prep Batch #....:</b> 1074540	<b>Analysis Time...:</b> 13:44	
<b>Dilution Factor:</b> 1	<b>Analyst ID.....:</b> 999998	<b>Instrument ID..:</b> MSG

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	123	(60 - 150)			SW846 8260B
	159 a, MSC	(60 - 150)	25	(0-30)	SW846 8260B
Benzene	96	(70 - 140)			SW846 8260B
	113	(70 - 140)	16	(0-30)	SW846 8260B
Trichloroethene	112	(70 - 130)			SW846 8260B
	127	(70 - 130)	12	(0-30)	SW846 8260B
Toluene	82	(70 - 130)			SW846 8260B
	120 p	(70 - 130)	38	(0-30)	SW846 8260B
Chlorobenzene	85	(70 - 130)			SW846 8260B
	103	(70 - 130)	20	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	103	(70 - 130)
	128	(70 - 130)
1,2-Dichloroethane-d4	114	(60 - 140)
	62	(60 - 140)
Toluene-d8	104	(70 - 130)
	116	(70 - 130)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Bold print denotes control parameters**

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

p Relative percent difference (RPD) is outside stated control limits.

**000107**

BOE-C6-0211674

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC Volatiles

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
<b>TPH (as Gasoline)</b>	85	(80 - 140)			<b>SW846 8015B</b>
	90	(80 - 140)	5.7	(0-40)	<b>SW846 8015B</b>
<b>SURROGATE</b>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>	
a,a,a-Trifluorotoluene (TFT)		107		(60 - 130)	
		108		(60 - 130)	

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Bold print** denotes control parameters

000108

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**TOTAL Metals**

**Client Lot #....:** E1C140162

**Matrix.....:** SOLID

**Date Sampled....:** 03/14/01 07:15 **Date Received...:** 03/14/01 09:42

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
		<u>RECOVERY</u>	<u>LIMITS</u>				<u>ANALYSIS DATE</u>	<u>ORDER #</u>
<b>MS Lot-Sample #:</b> E1C140176-001 <b>Prep Batch #....:</b> 1073257								
Aluminum	NC	(80 - 120)			SW846 6010B		03/14-03/15/01	DXC7G1A1
	NC	(80 - 120)	(0-25)		SW846 6010B		03/14-03/15/01	DXC7G1A2
		Dilution Factor: 1						
		Analysis Time...: 17:56			Instrument ID...: M01			Analyst ID.....: 003119
		MS Run #.....: 1073114						
Antimony	27 N	(75 - 115)			SW846 6010B		03/14-03/15/01	DXC7G1A3
	27 N	(75 - 115) 0.23	(0-25)		SW846 6010B		03/14-03/15/01	DXC7G1A4
		Dilution Factor: 1						
		Analysis Time...: 17:56			Instrument ID...: M01			Analyst ID.....: 003119
		MS Run #.....: 1073114						
Arsenic	92	(75 - 115)			SW846 6010B		03/14-03/15/01	DXC7G1A5
	83	(75 - 115) 9.9	(0-25)		SW846 6010B		03/14-03/15/01	DXC7G1A6
		Dilution Factor: 1						
		Analysis Time...: 17:56			Instrument ID...: M01			Analyst ID.....: 003119
		MS Run #.....: 1073114						
Barium	103	(80 - 120)			SW846 6010B		03/14-03/15/01	DXC7G1A7
	71 N	(80 - 120) 17	(0-25)		SW846 6010B		03/14-03/15/01	DXC7G1A8
		Dilution Factor: 1						
		Analysis Time...: 17:56			Instrument ID...: M01			Analyst ID.....: 003119
		MS Run #.....: 1073114						
Beryllium	105	(80 - 120)			SW846 6010B		03/14-03/15/01	DXC7G1A9
	89	(80 - 120) 13	(0-25)		SW846 6010B		03/14-03/15/01	DXC7G1CA
		Dilution Factor: 1						
		Analysis Time...: 17:56			Instrument ID...: M01			Analyst ID.....: 003119
		MS Run #.....: 1073114						
Cadmium	102	(80 - 120)			SW846 6010B		03/14-03/15/01	DXC7G1CC
	90	(80 - 120) 12	(0-25)		SW846 6010B		03/14-03/15/01	DXC7G1CD
		Dilution Factor: 1						
		Analysis Time...: 17:56			Instrument ID...: M01			Analyst ID.....: 003119
		MS Run #.....: 1073114						
Chromium	120	(85 - 120)			SW846 6010B		03/14-03/15/01	DXC7G1C3
	72 N	(85 - 120) 18	(0-25)		SW846 6010B		03/14-03/15/01	DXC7G1C4
		Dilution Factor: 1						
		Analysis Time...: 17:56			Instrument ID...: M01			Analyst ID.....: 003119
		MS Run #.....: 1073114						

(Continued on next page)

**000109**

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**TOTAL Metals**

**Client Lot #....:** E1C140162

**Matrix.....:** SOLID

**Date Sampled....:** 03/14/01 07:15 **Date Received...:** 03/14/01 09:42

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	WORK
	RECOVERY	LIMITS	RPD		ANALYSIS DATE	ORDER #
Cobalt	100	(80 - 120)		SW846 6010B	03/14-03/15/01	DXC7G1CE
	88	(80 - 120)	9.7 (0-25)	SW846 6010B	03/14-03/15/01	DXC7G1CF
		Dilution Factor: 1				
		Analysis Time...: 17:56		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1073114				
Copper	123 N	(80 - 120)		SW846 6010B	03/14-03/15/01	DXC7G1CG
	157 N	(80 - 120)	13 (0-25)	SW846 6010B	03/14-03/15/01	DXC7G1CH
		Dilution Factor: 1				
		Analysis Time...: 17:56		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1073114				
Lead	94	(80 - 120)		SW846 6010B	03/14-03/15/01	DXC7G1CJ
	85	(80 - 120)	8.9 (0-25)	SW846 6010B	03/14-03/15/01	DXC7G1CK
		Dilution Factor: 1				
		Analysis Time...: 17:56		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1073114				
Molybdenum	90	(80 - 120)		SW846 6010B	03/14-03/15/01	DXC7G1CL
	81	(80 - 120)	10 (0-25)	SW846 6010B	03/14-03/15/01	DXC7G1CM
		Dilution Factor: 1				
		Analysis Time...: 17:56		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1073114				
Nickel	100	(80 - 120)		SW846 6010B	03/14-03/15/01	DXC7G1CN
	79 N	(80 - 120)	15 (0-25)	SW846 6010B	03/14-03/15/01	DXC7G1CP
		Dilution Factor: 1				
		Analysis Time...: 17:56		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1073114				
Selenium	86	(70 - 115)		SW846 6010B	03/14-03/15/01	DXC7G1CQ
	80	(70 - 115)	7.5 (0-25)	SW846 6010B	03/14-03/15/01	DXC7G1CR
		Dilution Factor: 1				
		Analysis Time...: 17:56		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1073114				
Silver	96	(80 - 120)		SW846 6010B	03/14-03/15/01	DXC7G1CT
	85	(80 - 120)	13 (0-25)	SW846 6010B	03/14-03/15/01	DXC7G1CU
		Dilution Factor: 1				
		Analysis Time...: 17:56		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1073114				
Thallium	97	(75 - 120)		SW846 6010B	03/14-03/15/01	DXC7G1CV
	88	(75 - 120)	9.8 (0-25)	SW846 6010B	03/14-03/15/01	DXC7G1CW
		Dilution Factor: 1				
		Analysis Time...: 17:56		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1073114				

(Continued on next page)

**000110**

BOE-C6-0211677

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E1C140162

Matrix.....: SOLID

Date Sampled....: 03/14/01 07:15 Date Received...: 03/14/01 09:42

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	WORK
	RECOVERY	LIMITS	RPD		ANALYSIS DATE	ORDER #
Vanadium	115	(80 - 120)		SW846 6010B	03/14-03/15/01	DXC7G1CX
	72 N	(80 - 120) 18	(0-25)	SW846 6010B	03/14-03/15/01	DXC7G1C0
		Dilution Factor: 1				
		Analysis Time...: 17:56		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1073114				
Zinc	119	(80 - 120)		SW846 6010B	03/14-03/15/01	DXC7G1C1
	92	(80 - 120) 11	(0-25)	SW846 6010B	03/14-03/15/01	DXC7G1C2
		Dilution Factor: 1				
		Analysis Time...: 17:56		Instrument ID...: M01		Analyst ID.....: 003119
		MS Run #.....: 1073114				

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

**000111**

BOE-C6-0211678

# **Subcontracted**

# **Analysis**

**000112**

BOE-C6-0211679



Del Mar Analytical

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

## LABORATORY REPORT

Prepared For: STL Los Angeles  
1721 S. Grand Avenue  
Santa Ana, CA 92705

Attention: Diane Suzuki  
Project: E1C140162

Sampled: 03/13/01  
Received: 03/14/01  
Reported: 03/20/01

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*CJF*  
Del Mar Analytical, Colton  
Clifton J. Kiser  
Project Manager

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**000113**

BOE-C6-0211680



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STL Los Angeles  
 1721 S. Grand Avenue  
 Santa Ana, CA 92705  
 Attention: Diane Suzuki

Client Project ID: E1C140162

Report Number: CKC0111

Sampled:03/13/01

Received:03/14/01

### POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Reporting Batch	Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
<b>Sample ID: CKC0111-01 (SOURCE-H-031301-1 - Soil)</b>								
Acenaphthene	EPA 8310	C1C1506	250	ND	5	3/15/01	3/18/01	
Acenaphthylene	EPA 8310	C1C1506	250	ND	5	3/15/01	3/18/01	
Anthracene	EPA 8310	C1C1506	10	ND	5	3/15/01	3/18/01	
Benzo(a)anthracene	EPA 8310	C1C1506	10	ND	5	3/15/01	3/18/01	
Benzo(a)pyrene	EPA 8310	C1C1506	10	ND	5	3/15/01	3/18/01	
Benzo(b)fluoranthene	EPA 8310	C1C1506	25	ND	5	3/15/01	3/18/01	
Benzo(g,h,i)perylene	EPA 8310	C1C1506	25	ND	5	3/15/01	3/18/01	
Benzo(k)fluoranthene	EPA 8310	C1C1506	10	ND	5	3/15/01	3/18/01	
Chrysene	EPA 8310	C1C1506	25	ND	5	3/15/01	3/18/01	
Dibenzo(a,h)anthracene	EPA 8310	C1C1506	25	ND	5	3/15/01	3/18/01	
<b>Fluoranthene</b>	EPA 8310	C1C1506	25	<b>26</b>	5	3/15/01	3/18/01	
Fluorene	EPA 8310	C1C1506	25	ND	5	3/15/01	3/18/01	
<b>Indeno(1,2,3-cd)pyrene</b>	EPA 8310	C1C1506	25	<b>34</b>	5	3/15/01	3/18/01	
Naphthalene	EPA 8310	C1C1506	100	ND	5	3/15/01	3/18/01	
Phenanthrene	EPA 8310	C1C1506	25	ND	5	3/15/01	3/18/01	
Pyrene	EPA 8310	C1C1506	25	ND	5	3/15/01	3/18/01	
<i>Surrogate: 2-Methylanthracene (35-115%)</i>						81.9 %		
<b>Sample ID: CKC0111-02 (SOURCE-H-031301-2 - Soil)</b>								
Acenaphthene	EPA 8310	C1C1506	50	ND	1	3/15/01	3/18/01	
Acenaphthylene	EPA 8310	C1C1506	50	ND	1	3/15/01	3/18/01	
Anthracene	EPA 8310	C1C1506	2.0	ND	1	3/15/01	3/18/01	
Benzo(a)anthracene	EPA 8310	C1C1506	2.0	ND	1	3/15/01	3/18/01	
<b>Benzo(a)pyrene</b>	EPA 8310	C1C1506	2.0	<b>2.1</b>	1	3/15/01	3/18/01	
Benzo(b)fluoranthene	EPA 8310	C1C1506	5.0	ND	1	3/15/01	3/18/01	
Benzo(g,h,i)perylene	EPA 8310	C1C1506	5.0	ND	1	3/15/01	3/18/01	
Benzo(k)fluoranthene	EPA 8310	C1C1506	2.0	ND	1	3/15/01	3/18/01	
Chrysene	EPA 8310	C1C1506	5.0	ND	1	3/15/01	3/18/01	
Dibenzo(a,h)anthracene	EPA 8310	C1C1506	5.0	ND	1	3/15/01	3/18/01	
<b>Fluoranthene</b>	EPA 8310	C1C1506	5.0	<b>9.1</b>	1	3/15/01	3/18/01	
Fluorene	EPA 8310	C1C1506	5.0	ND	1	3/15/01	3/18/01	
<b>Indeno(1,2,3-cd)pyrene</b>	EPA 8310	C1C1506	5.0	ND	1	3/15/01	3/18/01	
Naphthalene	EPA 8310	C1C1506	20	ND	1	3/15/01	3/18/01	
Phenanthrene	EPA 8310	C1C1506	5.0	ND	1	3/15/01	3/18/01	
Pyrene	EPA 8310	C1C1506	5.0	ND	1	3/15/01	3/18/01	
<i>Surrogate: 2-Methylanthracene (35-115%)</i>						74.6 %		

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 Clifton J. Kiser  
 Project Manager

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**000114**

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**BOE-C6-0211681**



**Del Mar Analytical**

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STL Los Angeles  
 1721 S. Grand Avenue  
 Santa Ana, CA 92705  
 Attention: Diane Suzuki

Client Project ID: E1C140162

Report Number: CKC0111

Sampled:03/13/01  
 Received:03/14/01

## POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Reporting Batch	Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
				ug/kg		ug/kg		
<b>Sample ID: CKC0111-03 (SOURCE-K-031301-1 - Soil)</b>								
Acenaphthene	EPA 8310	C1C1506	400	ND	8	3/15/01	3/18/01	
Acenaphthylene	EPA 8310	C1C1506	400	ND	8	3/15/01	3/18/01	
Anthracene	EPA 8310	C1C1506	16	ND	8	3/15/01	3/18/01	
Benzo(a)anthracene	EPA 8310	C1C1506	16	24	8	3/15/01	3/18/01	
Benzo(a)pyrene	EPA 8310	C1C1506	16	35	8	3/15/01	3/18/01	
Benzo(b)fluoranthene	EPA 8310	C1C1506	40	ND	8	3/15/01	3/18/01	
Benzo(g,h,i)perylene	EPA 8310	C1C1506	40	47	8	3/15/01	3/18/01	
Benzo(k)fluoranthene	EPA 8310	C1C1506	16	ND	8	3/15/01	3/18/01	
Chrysene	EPA 8310	C1C1506	40	ND	8	3/15/01	3/18/01	
Dibenzo(a,h)anthracene	EPA 8310	C1C1506	40	76	8	3/15/01	3/18/01	
Fluoranthene	EPA 8310	C1C1506	40	49	8	3/15/01	3/18/01	
Fluorene	EPA 8310	C1C1506	40	ND	8	3/15/01	3/18/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1C1506	40	59	8	3/15/01	3/18/01	
Naphthalene	EPA 8310	C1C1506	160	ND	8	3/15/01	3/18/01	
Phenanthrene	EPA 8310	C1C1506	40	ND	8	3/15/01	3/18/01	
Pyrene	EPA 8310	C1C1506	40	59	8	3/15/01	3/18/01	
Surrogate: 2-Methylanthracene (35-115%)				124 %				ZX
<b>Sample ID: CKC0111-04 (SOURCE-K-031301-2 - Soil)</b>								
Acenaphthene	EPA 8310	C1C1506	1000	ND	20	3/15/01	3/18/01	
Acenaphthylene	EPA 8310	C1C1506	1000	ND	20	3/15/01	3/18/01	
Anthracene	EPA 8310	C1C1506	40	80	20	3/15/01	3/18/01	
Benzo(a)anthracene	EPA 8310	C1C1506	40	43	20	3/15/01	3/18/01	
Benzo(a)pyrene	EPA 8310	C1C1506	40	260	20	3/15/01	3/18/01	
Benzo(b)fluoranthene	EPA 8310	C1C1506	100	ND	20	3/15/01	3/18/01	
Benzo(g,h,i)perylene	EPA 8310	C1C1506	100	360	20	3/15/01	3/18/01	
Benzo(k)fluoranthene	EPA 8310	C1C1506	40	96	20	3/15/01	3/18/01	
Chrysene	EPA 8310	C1C1506	100	1300	20	3/15/01	3/18/01	
Dibenzo(a,h)anthracene	EPA 8310	C1C1506	100	800	20	3/15/01	3/18/01	
Fluoranthene	EPA 8310	C1C1506	100	730	20	3/15/01	3/18/01	
Fluorene	EPA 8310	C1C1506	100	190	20	3/15/01	3/18/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1C1506	100	280	20	3/15/01	3/18/01	
Naphthalene	EPA 8310	C1C1506	400	ND	20	3/15/01	3/18/01	
Phenanthrene	EPA 8310	C1C1506	100	550	20	3/15/01	3/18/01	
Pyrene	EPA 8310	C1C1506	100	360	20	3/15/01	3/18/01	
Surrogate: 2-Methylanthracene (35-115%)				1750 %				ZX

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 Clifton J. Kiser  
 Project Manager

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000445

BOE-C6-0211682



STL Los Angeles  
 1721 S. Grand Avenue  
 Santa Ana, CA 92705  
 Attention: Diane Suzuki

Client Project ID: E1C140162

Report Number: CKC0111

Sampled:03/13/01  
 Received:03/14/01

## POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
				ug/kg		ug/kg		
<b>Sample ID: CKC0111-05 (SOURCE-K-031301-3 - Soil)</b>								
Acenaphthene	EPA 8310	C1C1506	250	ND	5	3/15/01	3/18/01	
Acenaphthylene	EPA 8310	C1C1506	250	ND	5	3/15/01	3/18/01	
Anthracene	EPA 8310	C1C1506	10	ND	5	3/15/01	3/18/01	
Benzo(a)anthracene	EPA 8310	C1C1506	10	ND	5	3/15/01	3/18/01	
Benzo(a)pyrene	EPA 8310	C1C1506	10	23	5	3/15/01	3/18/01	
Benzo(b)fluoranthene	EPA 8310	C1C1506	25	ND	5	3/15/01	3/18/01	
Benzo(g,h,i)perylene	EPA 8310	C1C1506	25	46	5	3/15/01	3/18/01	
Benzo(k)fluoranthene	EPA 8310	C1C1506	10	ND	5	3/15/01	3/18/01	
Chrysene	EPA 8310	C1C1506	25	42	5	3/15/01	3/18/01	
Dibenzo(a,h)anthracene	EPA 8310	C1C1506	25	66	5	3/15/01	3/18/01	
Fluoranthene	EPA 8310	C1C1506	25	32	5	3/15/01	3/18/01	
Fluorene	EPA 8310	C1C1506	25	ND	5	3/15/01	3/18/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1C1506	25	58	5	3/15/01	3/18/01	
Naphthalene	EPA 8310	C1C1506	100	ND	5	3/15/01	3/18/01	
Phenanthrene	EPA 8310	C1C1506	25	28	5	3/15/01	3/18/01	
Pyrene	EPA 8310	C1C1506	25	36	5	3/15/01	3/18/01	
<i>Surrogate: 2-Methylanthracene (35-115%)</i>								
<b>Sample ID: CKC0111-06 (SOURCE-K-031301-4 - Soil)</b>								
Acenaphthene	EPA 8310	C1C1506	630	ND	12.5	3/15/01	3/18/01	
Acenaphthylene	EPA 8310	C1C1506	630	ND	12.5	3/15/01	3/18/01	
Anthracene	EPA 8310	C1C1506	25	ND	12.5	3/15/01	3/18/01	
Benzo(a)anthracene	EPA 8310	C1C1506	25	51	12.5	3/15/01	3/18/01	
Benzo(a)pyrene	EPA 8310	C1C1506	25	130	12.5	3/15/01	3/18/01	
Benzo(b)fluoranthene	EPA 8310	C1C1506	63	ND	12.5	3/15/01	3/18/01	
Benzo(g,h,i)perylene	EPA 8310	C1C1506	63	200	12.5	3/15/01	3/18/01	
Benzo(k)fluoranthene	EPA 8310	C1C1506	25	48	12.5	3/15/01	3/18/01	
Chrysene	EPA 8310	C1C1506	63	ND	12.5	3/15/01	3/18/01	
Dibenzo(a,h)anthracene	EPA 8310	C1C1506	63	300	12.5	3/15/01	3/18/01	
Fluoranthene	EPA 8310	C1C1506	63	380	12.5	3/15/01	3/18/01	
Fluorene	EPA 8310	C1C1506	63	ND	12.5	3/15/01	3/18/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1C1506	63	230	12.5	3/15/01	3/18/01	
Naphthalene	EPA 8310	C1C1506	250	ND	12.5	3/15/01	3/18/01	
Phenanthrene	EPA 8310	C1C1506	63	ND	12.5	3/15/01	3/18/01	
Pyrene	EPA 8310	C1C1506	63	170	12.5	3/15/01	3/18/01	
<i>Surrogate: 2-Methylanthracene (35-115%)</i>								
ZX								
221 %								

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BOE-C6-0211683



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STL Los Angeles  
 1721 S. Grand Avenue  
 Santa Ana, CA 92705  
 Attention: Diane Suzuki

Client Project ID: E1C140162

Report Number: CKC0111

Sampled:03/13/01  
 Received:03/14/01

## POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
<b>Sample ID: CKC0111-07 (SOURCE-K-031301-5 - Soil)</b>								
Acenaphthene	EPA 8310	C1C1506	500	ND	10	3/15/01	3/18/01	
Acenaphthylene	EPA 8310	C1C1506	500	ND	10	3/15/01	3/18/01	
Anthracene	EPA 8310	C1C1506	20	ND	10	3/15/01	3/18/01	
Benzo(a)anthracene	EPA 8310	C1C1506	20	ND	10	3/15/01	3/18/01	
Benzo(a)pyrene	EPA 8310	C1C1506	20	34	10	3/15/01	3/18/01	
Benzo(b)fluoranthene	EPA 8310	C1C1506	50	ND	10	3/15/01	3/18/01	
Benzo(g,h,i)perylene	EPA 8310	C1C1506	50	74	10	3/15/01	3/18/01	
Benzo(k)fluoranthene	EPA 8310	C1C1506	20	ND	10	3/15/01	3/18/01	
Chrysene	EPA 8310	C1C1506	50	ND	10	3/15/01	3/18/01	
Dibenzo(a,h)anthracene	EPA 8310	C1C1506	50	67	10	3/15/01	3/18/01	
Fluoranthene	EPA 8310	C1C1506	50	91	10	3/15/01	3/18/01	
Fluorene	EPA 8310	C1C1506	50	ND	10	3/15/01	3/18/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1C1506	50	99	10	3/15/01	3/18/01	
Naphthalene	EPA 8310	C1C1506	200	ND	10	3/15/01	3/18/01	
Phenanthrene	EPA 8310	C1C1506	50	ND	10	3/15/01	3/18/01	
Pyrene	EPA 8310	C1C1506	50	51	10	3/15/01	3/18/01	
<i>Surrogate: 2-Methylanthracene (35-115%)</i>								
<b>Sample ID: CKC0111-08 (SOURCE-K-031301-6 - Soil)</b>								
Acenaphthene	EPA 8310	C1C1506	1300	ND	25	3/15/01	3/18/01	
Acenaphthylene	EPA 8310	C1C1506	1300	ND	25	3/15/01	3/18/01	
Anthracene	EPA 8310	C1C1506	50	ND	25	3/15/01	3/18/01	
Benzo(a)anthracene	EPA 8310	C1C1506	50	64	25	3/15/01	3/18/01	
Benzo(a)pyrene	EPA 8310	C1C1506	50	290	25	3/15/01	3/18/01	
Benzo(b)fluoranthene	EPA 8310	C1C1506	130	ND	25	3/15/01	3/18/01	
Benzo(g,h,i)perylene	EPA 8310	C1C1506	130	420	25	3/15/01	3/18/01	
Benzo(k)fluoranthene	EPA 8310	C1C1506	50	130	25	3/15/01	3/18/01	
Chrysene	EPA 8310	C1C1506	130	1300	25	3/15/01	3/18/01	
Dibenzo(a,h)anthracene	EPA 8310	C1C1506	130	820	25	3/15/01	3/18/01	
Fluoranthene	EPA 8310	C1C1506	130	550	25	3/15/01	3/18/01	
Fluorene	EPA 8310	C1C1506	130	150	25	3/15/01	3/18/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1C1506	130	380	25	3/15/01	3/18/01	
Naphthalene	EPA 8310	C1C1506	500	ND	25	3/15/01	3/18/01	
Phenanthrene	EPA 8310	C1C1506	130	ND	25	3/15/01	3/18/01	
Pyrene	EPA 8310	C1C1506	130	490	25	3/15/01	3/18/01	
<i>Surrogate: 2-Methylanthracene (35-115%)</i>								
				536 %				ZX

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 Project Manager

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BOE-C6-0211684



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STL Los Angeles  
 1721 S. Grand Avenue  
 Santa Ana, CA 92705  
 Attention: Diane Suzuki

Client Project ID: E1C140162

Report Number: CKC0111

Sampled:03/13/01  
 Received:03/14/01

## POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
				ug/kg		ug/kg		
<b>Sample ID: CKC0111-09 (SOURCE-K-031301-7 - Soil)</b>								
Acenaphthene	EPA 8310	C1C1506	1000	ND	20	3/15/01	3/18/01	
<b>Sample ID: CKC0111-09RE1 (SOURCE-K-031301-7 - Soil)</b>								
Acenaphthylene	EPA 8310	C1C1506	2500	ND	50	3/15/01	3/18/01	
Anthracene	EPA 8310	C1C1506	100	120	50	3/15/01	3/18/01	
Benzo(a)anthracene	EPA 8310	C1C1506	100	200	50	3/15/01	3/18/01	
Benzo(a)pyrene	EPA 8310	C1C1506	100	530	50	3/15/01	3/18/01	
Benzo(b)fluoranthene	EPA 8310	C1C1506	250	ND	50	3/15/01	3/18/01	
Benzo(g,h,i)perylene	EPA 8310	C1C1506	250	1100	50	3/15/01	3/18/01	
Benzo(k)fluoranthene	EPA 8310	C1C1506	100	270	50	3/15/01	3/18/01	
Chrysene	EPA 8310	C1C1506	250	3300	50	3/15/01	3/18/01	
Dibenzo(a,h)anthracene	EPA 8310	C1C1506	250	1400	50	3/15/01	3/18/01	
Fluoranthene	EPA 8310	C1C1506	250	2200	50	3/15/01	3/18/01	
Fluorene	EPA 8310	C1C1506	250	ND	50	3/15/01	3/18/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1C1506	250	790	50	3/15/01	3/18/01	
Naphthalene	EPA 8310	C1C1506	1000	ND	50	3/15/01	3/18/01	
Phenanthrene	EPA 8310	C1C1506	250	640	50	3/15/01	3/18/01	
Pyrene	EPA 8310	C1C1506	250	1000	50	3/15/01	3/18/01	
<i>Surrogate: 2-Methylnanthracene (35-115%)</i>						2410 %		ZX
<b>Sample ID: CKC0111-10 (SOURCE-K-031301-8 - Soil)</b>								
Acenaphthene	EPA 8310	C1C1506	500	ND	10	3/15/01	3/18/01	
Acenaphthylene	EPA 8310	C1C1506	500	ND	10	3/15/01	3/18/01	
Anthracene	EPA 8310	C1C1506	20	ND	10	3/15/01	3/18/01	
Benzo(a)anthracene	EPA 8310	C1C1506	20	35	10	3/15/01	3/18/01	
Benzo(a)pyrene	EPA 8310	C1C1506	20	100	10	3/15/01	3/18/01	
Benzo(b)fluoranthene	EPA 8310	C1C1506	50	ND	10	3/15/01	3/18/01	
Benzo(g,h,i)perylene	EPA 8310	C1C1506	50	170	10	3/15/01	3/18/01	
Benzo(k)fluoranthene	EPA 8310	C1C1506	20	34	10	3/15/01	3/18/01	
Chrysene	EPA 8310	C1C1506	50	ND	10	3/15/01	3/18/01	
Dibenzo(a,h)anthracene	EPA 8310	C1C1506	50	230	10	3/15/01	3/18/01	
Fluoranthene	EPA 8310	C1C1506	50	ND	10	3/15/01	3/18/01	
Fluorene	EPA 8310	C1C1506	50	ND	10	3/15/01	3/18/01	
Indeno(1,2,3-cd)pyrene	EPA 8310	C1C1506	50	160	10	3/15/01	3/18/01	
Naphthalene	EPA 8310	C1C1506	200	ND	10	3/15/01	3/18/01	
Phenanthrene	EPA 8310	C1C1506	50	74	10	3/15/01	3/18/01	
Pyrene	EPA 8310	C1C1506	50	150	10	3/15/01	3/18/01	
<i>Surrogate: 2-Methylnanthracene (35-115%)</i>						170 %		ZX

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 Project Manager

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**BOE-C6-0211685**



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STL Los Angeles  
 1721 S. Grand Avenue  
 Santa Ana, CA 92705  
 Attention: Diane Suzuki

Client Project ID: E1C140162

Report Number: CKC0111

Sampled:03/13/01  
 Received:03/14/01

### METHOD BLANK/QC DATA

## POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	Data Limit	Data Qualifiers
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Batch: C1C1506 Extracted: 03/15/01

Blank Analyzed: 03/17/01 (C1C1506-BLK1)

Acenaphthene	ND	50	ug/kg						
Acenaphthylene	ND	50	ug/kg						
Anthracene	ND	2.0	ug/kg						
Benzo(a)anthracene	ND	2.0	ug/kg						
Benzo(a)pyrene	ND	2.0	ug/kg						
Benzo(b)fluoranthene	ND	5.0	ug/kg						
Benzo(g,h,i)perylene	ND	5.0	ug/kg						
Benzo(k)fluoranthene	ND	2.0	ug/kg						
Chrysene	ND	5.0	ug/kg						
Dibenz(a,h)anthracene	ND	5.0	ug/kg						
Fluoranthene	ND	5.0	ug/kg						
Fluorene	ND	5.0	ug/kg						
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg						
Naphthalene	ND	20	ug/kg						
Phenanthrene	ND	5.0	ug/kg						
Pyrene	ND	5.0	ug/kg						
Surrogate: 2-Methylnanthracene	6.46		ug/kg	8.00		80.8	35-115		

LCS Analyzed: 03/18/01 (C1C1506-BS1)

Acenaphthene	68.1	50	ug/kg	80.0		85.1	45-115		
Acenaphthylene	140	50	ug/kg	160		87.5	50-115		
Anthracene	6.67	2.0	ug/kg	8.00		83.4	55-115		
Benzo(a)anthracene	7.60	2.0	ug/kg	8.00		95.0	65-115		
Benzo(a)pyrene	6.71	2.0	ug/kg	8.00		83.9	55-115		
Benzo(b)fluoranthene	14.0	5.0	ug/kg	16.0		87.5	65-115		
Benzo(g,h,i)perylene	14.7	5.0	ug/kg	16.0		91.9	60-115		
Benzo(k)fluoranthene	6.84	2.0	ug/kg	8.00		85.5	65-115		
Chrysene	6.85	5.0	ug/kg	8.00		85.6	65-115		
Dibenz(a,h)anthracene	13.7	5.0	ug/kg	16.0		85.6	60-115		
Fluoranthene	14.1	5.0	ug/kg	16.0		88.1	65-115		
Fluorene	13.9	5.0	ug/kg	16.0		86.9	55-115		
Indeno(1,2,3-cd)pyrene	7.03	5.0	ug/kg	8.00		87.9	55-115		
Naphthalene	67.8	20	ug/kg	80.0		84.8	45-115		
Phenanthrene	6.69	5.0	ug/kg	8.00		83.6	55-120		
Pyrene	7.20	5.0	ug/kg	8.00		90.0	55-115		

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 Project Manager

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BOE-C6-0211686



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STL Los Angeles  
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 Santa Ana, CA 92705  
 Attention: Diane Suzuki

Client Project ID: E1C140162

Report Number: CKC0111

Sampled:03/13/01  
 Received:03/14/01

### METHOD BLANK/QC DATA

## POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-----------------

Batch: C1C1506 Extracted: 03/15/01

LCS Analyzed: 03/18/01 (C1C1506-BS1)

Surrogate: 2-Methylnanthracene 6.47 ug/kg 8.00 80.9 35-115

Matrix Spike Analyzed: 03/18/01 (C1C1506-MS1)

Acenaphthene	ND	1000	ug/kg	80.0	ND	496	40-115		MX
Acenaphthylene	ND	1000	ug/kg	160	ND	86.9	35-130		MX
Anthracene	ND	40	ug/kg	8.00	ND	118	40-115		MX
Benzo(a)anthracene	75.8	40	ug/kg	8.00	ND	921	45-130		MX
Benzo(a)pyrene	147	40	ug/kg	8.00	ND	1810	50-115		MX
Benzo(b)fluoranthene	ND	100	ug/kg	16.0	ND	414	40-130		MX
Benzo(g,h,i)perylene	266	100	ug/kg	16.0	ND	1560	45-115		MX
Benzo(k)fluoranthene	59.1	40	ug/kg	8.00	ND	730	40-125		MX
Chrysene	ND	100	ug/kg	8.00	ND	369	45-125		MX
Dibenzo(a,h)anthracene	492	100	ug/kg	16.0	ND	3080	25-130		MX
Fluoranthene	386	100	ug/kg	16.0	ND	2250	50-135		MX
Fluorene	ND	100	ug/kg	16.0	ND	255	35-120		MX
Indeno(1,2,3-cd)pyrene	221	100	ug/kg	8.00	ND	2340	40-120		MX
Naphthalene	ND	400	ug/kg	80.0	ND	119	30-115		MX
Phenanthrene	ND	100	ug/kg	8.00	ND	574	30-160		MX
Pyrene	235	100	ug/kg	8.00	ND	2840	20-165		MX
Surrogate: 2-Methylnanthracene	11.1		ug/kg	8.00		139	35-115		MX

Matrix Spike Dup Analyzed: 03/18/01 (C1C1506-MSD1)

Acenaphthene	ND	1000	ug/kg	80.0	ND	40-115		25	MX	
Acenaphthylene	ND	1000	ug/kg	160	ND	132	35-130	41.1	25	MX
Anthracene	ND	40	ug/kg	8.00	ND	104	40-115	12.5	25	
Benzo(a)anthracene	ND	40	ug/kg	8.00	ND	398	45-130	76.4	20	MX
Benzo(a)pyrene	104	40	ug/kg	8.00	ND	1280	50-115	34.3	20	MX
Benzo(b)fluoranthene	ND	100	ug/kg	16.0	ND	246	40-130	51.1	25	MX
Benzo(g,h,i)perylene	187	100	ug/kg	16.0	ND	1060	45-115	34.9	20	MX
Benzo(k)fluoranthene	ND	40	ug/kg	8.00	ND	463	40-125	44.2	25	MX
Chrysene	ND	100	ug/kg	8.00	ND	-115	45-125		30	MX
Dibenzo(a,h)anthracene	317	100	ug/kg	16.0	ND	1980	25-130	43.3	30	MX
Fluoranthene	220	100	ug/kg	16.0	ND	1210	50-135	54.8	25	MX
Fluorene	ND	100	ug/kg	16.0	ND	239	35-120	6.32	20	MX
Indeno(1,2,3-cd)pyrene	179	100	ug/kg	8.00	ND	1810	40-120	21.0	20	MX

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Clifton J. Kiser  
 Project Manager

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BOE-C6-0211687



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1721 S. Grand Avenue  
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Attention: Diane Suzuki

Client Project ID: E1C140162

Report Number: CKC0111

Sampled:03/13/01  
Received:03/14/01

## METHOD BLANK/QC DATA

### POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: C1C1506 Extracted: 03/15/01</b>										
<b>Matrix Spike Dup Analyzed: 03/18/01 (C1C1506-MSD1)</b>										
<b>Source: CKC0111-01</b>										
Naphthalene	ND	400	ug/kg	80.0	ND	78.4	30-115	41.4	25	MX
Phenanthrene	ND	100	ug/kg	8.00	ND	63.8	30-160	96.0	30	MX
Pyrene	147	100	ug/kg	8.00	ND	1740	20-165	46.1	20	MX
Surrogate: 2-Methylnanthracene	12.0		ug/kg	8.00		150	35-115			MX

Del Mar Analytical, Colton  
Clifton J. Kiser  
Project Manager

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BOE-C6-0211688



STL Los Angeles  
1721 S. Grand Avenue  
Santa Ana, CA 92705  
Attention: Diane Suzuki

Client Project ID: E1C140162

Report Number: CKC0111

Sampled:03/13/01  
Received:03/14/01

## DATA QUALIFIERS AND DEFINITIONS

- MX** The MS and/or MSD were outside of the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- ZX** Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- NR** Not reported.
- RPD** Relative Percent Difference

Del Mar Analytical, Colton  
Clifton J. Kiser  
Project Manager

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BOE-C6-0211689

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